Subject Index—Volume 28
Page numbers preceded by S1 through S5 refer to Supplements 1 through 5

A

abdomen
  fibromatosis in pregnancy, 260
  hydatid cysts treated with alcohol and hypertonic saline, 121
  ultrasonography after barium enema examination, 295
abscess, gastric, mimicking leiomyoma, 175
absorptiometry, dual-energy x-ray, bone mineral density in, 573
academic radiology
  clinical and research activities in, 985
  financial support of, Suppl 3:S116
  interaction with industry, Suppl 3:S61
  publications in. *See* journals
accreditation of education programs, 393
alcohol and hypertonic saline in treatment of abdominal hydatid cysts, 121
American Board of Radiology, report from, 268
analog film library retrieval rates, Markov chain model of, 1144
aneurysms, intracranial, 373
angiogenic factor, absence in arteriovenous malformations, 594
angiography
  blood vessel diameter measurements on cineangiogram, 1128
  coronary. *See* coronary arteries, angiography
  digital subtraction, bronchiz' artery drainage pathways in, 434
  magnetic resonance. *See* magnetic resonance angiography
  microangiography of hepatoma in rat model, 507
  pudendal, compared to penile duplex ultrasonography, 806
animal studies
  adult respiratory distress syndrome model in pigs, 39
  cardiac function and sodium-calcium balance after isotonic iodixanol, 20
  cardiovascular responses to MR contrast media, 11
  cerebral artery embolization with starch microspheres, 150
  cerebral embolism from red cells treated with hypertonic contrast media, 831
  comparison of IEEC and iohexol in CT imaging of liver, 513
  contrast agents affecting renal function, Suppl 5:S1
  corpus callosum impingement, 46
  correlation of MRI with histology in brain ischemia, 994
  electrocautery after needle biopsy of liver, 228
  endothelin release induced by contrast agents, 313
  fluoroscopy-based CT scanner in, 539
  gadolinium-DTPA transplacental transfer and distribution, 828
  gadolinium-ethoxybenzyl-DTPA as MR contrast agent, 26
  gallbladder sclerosis procedure with stones in situ, 420
  gas-filled liposomes as contrast agents in echocardiography, 1155
  gentamicin nephropathy in rats, 133
  gravity-dependent atelectasis, 633
  hepatic tumor necrosis, 896
  hepatocyte evaluation with manganese-DPDP in MRI, 903
  hepatoma echo pattern changes with tumor growth, 507
  lidocaine protection of ischemic myocardium, 619
  liver ablation lesions induced by ultrasound, 796
  liver changes after intraarterial injection of lipiodol, 128
  liver tumor detection with ultrasonography, 218
  magnetic resonance imaging of hepatitis in Long-Evans Cinnamon rats, 1010
  manganese-based liposomes in MRI, 933
  manganese-DPDP uptake by hepatoma in rats, 520
  manganese-mesoporphyrin in liver studies with MRI, 925
  muscle T1 relaxation times after death, 529
  necrotic areas in VX2 carcinoma, 33
  nephrotoxicity of iodinated contrast media, 814
  neurotoxicity of nonionic low-osmolar contrast media, 821
  new agent for interventional radiology, 1083
  nonionic contrast agents in neuroangiography, Suppl 5:S55
  perfluorocarbons as ultrasound contrast agents, 325
  pharmacokinetics of iopromide liposomes, 1028
  portal hypertension model, 442
  red-cell trapping in renal microcirculation induced by contrast media, 1033
  repeated intracoronary injections of contrast media, 917
  research proposals for, Suppl 2:S30
  sodium-calcium balance in nonionic contrast media, 223
  soft-tissue injury from extravasation of water soluble contrast media, 332
  treatment of abdominal hydatid cysts, 121
  tumor blood flow affected by shock waves, 611
  tumor detection with gadolinium-labeled monoclonal antibodies in MRI, 789
  vascular volume measurements in rat tumors, 710
  vasoconstrictors interacting with contrast media, 911
anthropometric analysis of skull in neurofibromatosis, 116
aortic atherosclerotic calcifications seen on lumbar CT, 811
arrhythmias, and sodium-calcium balance in nonionic contrast media, 223
arteriovenous malformations, absence of angiogenic factor in, 594
artifacts in hyperlucent thorax from rotation, 567
Association of American Medical Colleges meeting report, 557
Association of University Radiologists
  annual meeting in 1993, 1170
  committee on standards for responsible conduct of research, 879
  Gold Medal Awards, 1173
  Whitley Award, 1090, 1170
atelectasis, gravity-dependent, mechanisms in, 633
atherosclerosis, renal and aortic calcifications seen on lumbar CTs in, 811
Australia
  radiology in, Suppl 3:S21
  technology and clinical practice in, Suppl 3:S114
Austria, imaging of cardiac transplantation in, Suppl 3:S149

B

barium enema examination, abdominal ultrasonography after, 295
Belgium, radiology in, Suppl 3:S39
biopsy of liver, needle, electrocautery after, 228
blood flow
  myocardial measurements with PET, Suppl 4:S47
  phase subtraction MRI studies, 109
bone
  cortical measurements on CT images, 802
  mineral density related to spinal fractures, 573
  mineral quantification with computed microtomography, 341
  susceptibility effect of trabeculae in MRI, 208
book reviews
  Abdominal Sonography (Sauerbrei, Nguyen, & Nolan), 983
  Clinical Radiology: The Essentials (Daffner), 877
  Computed Digital Radiography in Clinical Practice (Greene & Oestmann), 90
  Diagnostic Imaging of AIDS (Reeders, Binkhuysen & Bartelsman), 1081
  Diagnostic Ultrasound: Physics, Biology, and Instrumentation (Bushong & Archer), 387

Film-Screen Mammography: An Atlas of Instructional Cases (Bassett, Jahanshahi, Gold, & Lu), 665
Fundamentals of Magnetic Resonance Imaging (Chakeres & Schmalbrock), 386
Handbook of Neuroradiology (Osborn), 184
Hysterosalpingography: A Text and Atlas (Ott & Fayez), 91
Imaging of the Spine and Spinal Cord (Manelfe, ed.), 664
Imaging of the Temporal Bone, 2nd ed. (Swartz & Harnsberger), 185
Interventional Neuroradiology: Endovascular Therapy of the Central Nervous System (Vinuela, Halbach, & Dion, eds.), 267
Intravascular Ultrasound Imaging (Cavaye & White), 984
Magnetic Resonance Imaging of the Body, 2nd ed. (Higgins & Hricak), 266
Medical Imaging Physics, 3rd ed. (Hendee & Ritenour), 1081
MRI of the Foot and Ankle (Dentch, Mink, & Kerr, eds.), 878
MRI of the Shoulder—Clinical Situations in Management (Shannon & Tocino), 565
Radioisotopic Methods for Biological and Medical Research (Knoche), 186
Radiologist's Second Reader (Fischer, ed.), 90
Radiology of Syndromes, Metabolic Disorders, and Skeletal Dysplasias, 3rd ed. (Taybi & Lachman), 266
Screen Film Mammography: Imaging Considerations and Medical Physics Responsibilities (Barnes & Frey, eds.), 464
brain
animal model of corpus callosum impingement, 46
cerebral embolization
from red cells treated with hypertonic contrast media, 831
from starch microspheres, 150
ischemia of, correlation of MRI with histology in, 994
tumors of, contrast enhanced MRI in, Suppl 1:S3
volume measurements with MRI, 890
breast cancer
invasive lobular, 202
mammography in. *See* mammography
bronchial arteries, digital subtraction angiography of, 434
bronchiolitis diagnosis in childhood, 214
Budd-Chiari syndrome in leiomyosarcoma of inferior vena cava, 774

C

calcium balance with sodium
isotonic iodixanol affecting, 20
in nonionic contrast media, 223
Canada
financial support of academic radiology, Suppl 3:S116
industry and radiology, Suppl 3:S67
public policy and funding issues in health care, Suppl 4:S59
cancer survival, imaging technology affecting, Suppl 3:S132
cardiac imaging. *See* heart
cardiologists, contemporary issues for, Suppl 4:1
carpal tunnel syndrome, imaging in diagnosis of, 1059
Central America
postgraduate radiologic education in, Suppl 3:S92
radiology in, Suppl 3:S30
cerebral embolization
from red cells treated with hypertonic contrast media, 831
from starch microspheres, 150
certification in specialties and subspecialties, 393
chemoembolization mixtures, stability of, 1024
chemotactic peptides, radiolabeled, for detecting infection, 356
chest films
in childhood bronchiolitis, 214
computer-aided diagnosis in, 987
digital film-duplication system evaluation in, 1134
digital portable radiographs in, 667
digitized
compressed images in, 398
scatter compensation in, 427
single-exposure dual-energy subtraction method in, 482
and hyperlucent thorax from rotation, 567
pulmonary nodule recognition enhancement, 289
China, radiology in, Suppl 3:S58
cholecystography, oral, compared to ultrasonography in chronic cholecystitis, 404
cineangiograms, coronary, blood vessel diameter measurements on, 1128
cirrhosis, and spontaneous splenorenal shunt with scrotal swelling, 770
clinical history
and childhood bronchiolitis diagnosis, 214
and observer performance, 191
coagulation studies
etiologic factors in thromboembolism, Suppl 5:S25, S31
nonionic contrast media in, Suppl 5:S21
collaborative evaluations of diagnostic tests, Suppl 2:S24
computed tomography
in animal model of adult respiratory distress syndrome, 39
in carpal tunnel syndrome, 1059
correlation with pathology in whole lung sections, 242
dynamic contrast bolus
in measurement of solid organ perfusion, Suppl 5:S72
in renal function studies, 1039
dynamic inhalation studies with nonradioactive xenon gas, in gravity-dependent atelectasis, 633
fluoroscopy-based scanner in, 539
image compression with adjacent slice data, 678
iopromide liposomes in, 1028
liver studies
in ablation lesions induced by high-intensity ultrasound, 796
after laser-induced necrosis, 1148
in community practice, 1139
comparison of IEEC and iohexol in, 513
in fatty infiltrations, 297
lumbar, atherosclerotic calcifications seen on, 811
microtomography of bone mineral, 341
multiplanar reconstruction of data in, 146
myelography in lumbar disc herniation, Suppl 5:S62
quantitative
bone mineral density in, 573
in cortical bone measurements, 802
in renal function studies, Suppl 5:S79
safety of contrast agents in, Suppl 5:S68
single photon emission. *See* single photon emission computed tomography (SPECT)
in spontaneous perinephric hemorrhage, 81
in stereotactic needle guidance, 845
computer-aided diagnosis in chest radiography, 987
and visual feedback for pulmonary nodule recognition, 289
computer-assisted instruction, 169
with interactive videodisc, 1052
computer-assisted radiography
hybrid cassette in, 409
quantitation of cardiac images in, Suppl 3:S146
contrast media. *See also specific contrast agents*
current status of, Suppl 4:S2
directions for 1990s, Suppl 3:S138
interaction with vasoconstrictors, 911
iodinated, nephrotoxicity affected by endothelium-derived nitric oxide, 814
for liver studies with MRI, 753

low-osmolar
nephropathy from, Suppl 5:S7
neurotoxicity of, 821
and red-cell trapping in renal microcirculation, 1033
in urography, Suppl 5:S13
in magnetic resonance imaging, cardiovascular responses to, 11
nephropathy associated with, Suppl 4:S11, Suppl 5:S1
from low-osmolality agents, Suppl 5:S7
nonionic
cardiac effects of, Suppl 5:S44
in childhood, Suppl 5:S87
in coronary angiography, Suppl 5:S48
in dynamic contrast bolus CT, Suppl 5:S72
in lumbar myelography, Suppl 5:S62
in neuroangiography, Suppl 5:S55
neurotoxicity of, 821
patient consent for, 303
and platelet aggregation, Suppl 5:S21
rates of idiosyncratic reactions to, Suppl 5:S95
sodium-calcium balance in, 223
in visceral angiography, Suppl 5:S39
osmolality affecting EKG in hysterosalpingography, 439
red blood cell alterations from, and cerebral embolization, 831
renal tubular effects of, 319
research directions in 1990s, Suppl 3:S140
safety in body computed tomography, Suppl 5:S68
selection for cardiac angiography, Suppl 4:S5
and thromboembolism etiology, Suppl 5:S25, S31
coronary arteries
angiography
effects of isotonic iodixamol in, 20
nonionic contrast media in, Suppl 5:S48
selection of contrast media for, Suppl 4:S5
and sodium-calcium balance in nonionic contrast media, 223
contrast media affecting vasoconstrictor effects in, 911
diameter measurements on cineangiogram, 1128
repeated injections of contrast media in, 917
corpus callosum impingement, animal model of, 46
Council of Academic Studies meeting report, 557
critical reviews
magnetic resonance angiography in peripheral ischemic disease, 656
spontaneous perinephric hemorrhage, 81
curved array transducer, focal zone affecting, 7
cyst
hydatid, percutaneous treatment of, 121
retroperitoneal, in adult woman, 868
Czechoslovakia, radiology in, Suppl 3:S36

D

database management in medical imaging, 366
decision-making, hypothesis generation in, 76
developing countries
radiology in, Suppl 3:S27, S34
World Health Organization programs in, Suppl 3:S24
diatrizoate
effects on spermatogenesis, 1160
and histamine release in MRI, 308
interaction with vasoconstrictors, 911
renal effects of, Suppl 5:S7
repeated intracoronary injections of, 917
digital film-duplication system, evaluation of, 1134
digital radiography
bilateral subtraction and single-image processing in mammography, 473
bronchial artery drainage pathways in subtraction angiography, 434
image storage technology in, 454
irreversible image compression in thoracic imaging, 398
portable chest radiographs in, 667
prediction of teleradiology system throughput in, 162
scatter compensation for chest films in, 427
in skull fracture detection, 686
spatial resolution in mammography, 413
storage phosphor system
hybrid cassette images in, 409
in skull fracture detection, 231, 686
diuretics, renal tubular effects of, 319
double contrast small bowel follow-through with acid-resistant effervescent agent, 581
dual-energy x-ray absorptiometry, bone mineral density in, 573
ductus arteriosus patency, and new vascular occlusion device, 1165
dysprosium-DTPA-BMA compared to gadodiamide injection in MRI of myocardial infarction, 1015

E

echocardiography
advances in, Suppl 4:S19, S26
gas-filled liposomes as contrast agents in, 1155
economic trends, and medical technology in the U.S., Suppl 3:S5
editorials, 103, 287, 985
education
and activities of Conjoint Committee for Diagnostic Radiology, Suppl 2:S52
economic environment and new technology affecting, Suppl 3:S5, S23
evaluation of medical students in radiology, 964
multimedia textbook compared to standard lecture in, 643
radiology pathology course, 562
and research in universities, Suppl 3:S96
researchers as teachers, 383
in residency. *See* Residency
surgical practice and education, changing economy and new technology, Suppl 3:S23
videodisc system for teaching medical students, 969
electrocautery after needle biopsy of liver, 228
electronic imaging and transmission
affecting visual nature of diagnostics in radiology, Suppl 3:S91
future directions in, Suppl 3:S79
legal aspects of, Suppl 3:S82
embolism, cerebral, from red cell alterations induced by contrast media, 831
embolization therapy
cerebral artery, starch microspheres in, 150
hepatic artery, preoperative transcatheter procedure in, 235
and new agent for interventional radiology, 1083
stability of chemoembolization mixtures in, 1024
emergency radiology, and improvements in night-call rotations, 92
endothelin
interaction with contrast media, 911
release induced by contrast agents, and radiocontrast nephropathy, 313
endothelium-derived nitric oxide, and nephrotoxicity of iodinated contrast media, 814
epididymis, embryonal rhabdomyosarcoma of, 1072
esophagus evaluation after partial esophagogastrectomy, 247
ethical issues
in choice of urographic contrast agent, Suppl 5:S13
and responses of radiologists to patients, 1043, 1049
European community
imaging technology in, Suppl 3:S8, S34
multimedia technology projects in, Suppl 3:S79
radiologic education in, Suppl 3:S94

European Society of Uroradiology, 653
extravasation of water soluble contrast media, mitigation of soft-tissue injury in, 332

F

fax transmission of radiographic images, 860
fetus, gadolinium distribution in, 828
financial support
  of imaging in academic settings, Suppl 3:S116
  of imaging research laboratories, Suppl 3:S126
Finland, imaging technology in, Suppl 3:S110
fluoroscopy-based CT scanner, 539
focal zone sttings affecting curved array transducer, 7
forensic medicine. *See* legal aspects
fractures
  skull
    detection in different imaging conditions, 231
    digital and conventional radiography in, 686
  spinal, related to bone mineral density, 573
France
  electronic image transmission in, Suppl 3:S87
    legal issues in, Suppl 3:S82
  medical malpractice in, 459
  radiology in, Suppl 3:S51
furosemide, renal tubular effects of, 319
future developments in imaging, Suppl 3:S119

G

gadodiamide in magnetic resonance imaging, Suppl 1:2
  cardiovascular responses to, 11
  compared to dysprosium-DTPA-BMA in myocardial infarction, 1015
  human experience with, Suppl 1:S44
  multicenter trial of, Suppl 1:S49
  in neurologic lesions, Suppl 1:S3
  pharmacokinetics of, Suppl 1:S28
  physicochemical properties of, Suppl 1:S21
gadolinium
  and histamine release in MRI, 308
  monoclonal antibodies labeled with, for tumor detection, 789
gadolinium-DTPA, transplacental transfer and distribution of, 828
gadolinium-ethoxybenzyl-DTPA as liver-specific MR contrast agent, 26
gadopentetate dimeglumine, cardiovascular responses to, 11
gallbladder
  imaging with ultrasonography or oral cholecystography, 404
  sclerosis procedure with stones in situ, 420
gentamicin nephropathy in rats, 133
Germany
  contrast media research in, Suppl 3:S140
  industrial support for research in, Suppl 3:S59
  industry and university partnerships in, Suppl 3:S123
  radiology in, Suppl 3:S18, S48
  research support for medical schools in, Suppl 3:S129
  technology and radiologic education in, Suppl 3:S106
grantsmanship, Suppl 2:S3
  and activities of Conjoint Committee for Diagnostic Radiology, Suppl 2:S52
  for animal research, Suppl 2:S30
  budget preparation in, Suppl 2:S13
  in collaborative diagnostic evaluation study, Suppl 2:S24
  in radiology research, Suppl 2:S44
  research design in, Suppl 2:S17
  and research funding organizations, Suppl 2:S58
  and review process in NIH, Suppl 2:S33
  in university-industrial partnerships, Suppl 2:S41
  writing of proposals in, Suppl 2:S10
gravity-dependent atelectasis, mechanisms in, 633

H

headache of two months duration, in nine-year-old boy, 974
health care
  public policy and funding issues in, Suppl 4:S56
    in Canada, Suppl 4:S59
  worldwide, new imaging technology affecting, Suppl 3:S1
heart. *See also* coronary arteries
  blood flow measurements with PET, Suppl 4:S47
  comparison of MRI contrast agents in myocardial infarction, 1015
  computer-aided diagnosis in chest radiography, 987
  computer-assisted quantitation of images, Suppl 3:S146
  contemporary issues for cardiologists, Suppl 4:1
  current status of cardiac radiology, 545
    additional considerations in, 550
  echocardiography of, Suppl 4:S19, S26
    gas-filled liposomes as contrast agents in, 1155
  effects of MR contrast media after myocardial infarction, 11
  evaluation of cardiac cone—beam SPECT, 1101
  function studies after isotonic iodixanol, 20
  functional imaging with MRI, Suppl 4:S38
  lidocaine protection of ischemic myocardium, 619
  nonionic contrast media affecting, Suppl 5:S44
  size estimation, 463
hemodialysis, and iopamidol clearance after subclavian venography, 629
hepatic artery embolization, preoperative transcatheter, 235
hip radiography in osteoarthritis, central acetabular osteophytosis patterns in, 1120
histamine
  interaction with contrast media, 911
  release induced by iodinated contrast media in MRI, 308
Hodgkin's disease, 737, 848
Holland, radiology in, Suppl 3:S55
hospital budgets, new technologies affecting, Suppl 3:S112
hybrid cassette, utilization of, 409
hydatid cysts, abdominal, percutaneous treatment of, 121
hydrocephalus, normal pressure, and animal model of corpus callosum impingement, 46
hydrogel in new agent for interventional radiology, 1083
hypermedia, instructional
  in evaluation of renal masses, 169
  HyperLung compared to standard lecture, 643
hypertension
  and atherosclerotic calcifications seen on lumbar CTs, 811
  portal, animal model of, 442
hysterosalpingography, contrast media osmolality affecting EKG in, 439

I

IEEC compared to iohexol in CT imaging of liver, 513
immunoglobulins, radiolabeled, for detecting infection, 356
impotence, penile duplex ultrasonography in, 806
India, radiology in, Suppl 3:S32
industry interactions with academia in diagnostic imaging, Suppl 3:S61
informed consent
  for nonionic contrast media, 303
  standardized forms for, 533
International Symposium on the Impact of New Imaging Technology, Suppl 3:S1
interventional radiology
  drug system for, 1083
  new technology affecting, Suppl 3:S72

intestines, double contrast small bowel follow-through, 581
Investigative Radiology journal, residents' edition of, 103
iodixanol
  cardiac effects of, Suppl 5:S44
  isotonic, affecting sodium-calcium balance and cardiac function, 20
  renal tubular effects of, 319
iohexol
  binding to neural membrane receptors, 821
  in cardiac angiography, Suppl 5:S48
  compared to IEEC in CT imaging of liver, 513
  in dynamic contrast bolus CT, Suppl 5:S72
  and histamine release in MRI, 308
  interaction with vasoconstrictors, 911
  and platelet aggregation, Suppl 5:S21
  rates of idiosyncratic reactions to, Suppl 5:S95
  renal effects of, Suppl 5:S7
    in gentamicin nephropathy, 133
    nephrotoxicity affected by endothelium-derived nitric oxide, 814
  repeated intracoronary injections of, 917
  safety in children, Suppl 5:S87
  in visceral angiography, Suppl 5:S39
iopamidol
  binding to neural membrane receptors, 821
  in cardiac angiography, Suppl 5:S48
  clearance in hemodialysis after subclavian venography, 629
  effects on spermatogenesis, 1160
  and platelet aggregation, Suppl 5:S21
  rates of idiosyncratic reactions to, Suppl 5:S95
  and red-cell trapping in renal microcirculation, 1033
  renal effects of, Suppl 5:S7
  safety in children, Suppl 5:S87
iopentol, renal tubular effects of, 319
iopromide liposomes
  characterization of, 1028
  lyophilized, 838
iothalamate, and renal endothelin release, 313
iotrol, cardiac effects of, Suppl 5:S44
ioversol
  in cardiac angiography, Suppl 5:S48
  and renal endothelin release, 313
ioxaglate
  interaction with vasoconstrictors, 911
  nephrotoxicity affected by endothelium-derived nitric oxide, 814
  and platelet aggregation, Suppl 5:S21
  and red-cell trapping in renal microcirculation, 1033
  repeated intracoronary injections of, 917
  in visceral angiography, Suppl 5:S39
ioxithalamate extravasation, mitigation of soft-tissue injury in, 332
Italy, radiology in, Suppl 3:S15
  neuroradiology, Suppl 3:S151

J

Japan
  hospital information and image transmission systems in, Suppl 3:S85
  medical economy in, Suppl 3:S10
  radiology in, Suppl 3:S68
  research directions in, Suppl 3:S134
  synchrotron radiation applied to medicine in, Suppl 3:S158
journals
  assessed by radiologists, 706
  radiologic studies used by nonradiologists in, 388
  residents' edition of Investigative Radiology, 103
  standards for authorship and publication in, 879

K

kidneys
  computer-assisted instruction in evaluation of masses, 169
  diuretics and contrast media affecting, 319
  dynamic contrast CT in function studies, 1039
  endothelin release induced by contrast agents, 313
  endothelium-derived nitric oxide affecting contrast media toxicity, 814
  function studies with computed tomography, Suppl 5:S79
  gentamicin nephropathy in rats, 133
  nephropathy associated with contrast media, Suppl 4:S11, Suppl 5:S1
    with low-osmolality agents, Suppl 5:S7
  potential donors evaluated with magnetic resonance angiography, 882
  red-cell trapping in microcirculation induced by contrast media, 1033
  spontaneous perinephric hemorrhage, 81
  ultrasonography with parametric imaging, 720
knee
  multiplanar reconstruction of, 142
  osteoarthritis of, reliability of grading scales in, 497
Korea, industry and radiology in, Suppl 3:S65

L

laser photocoagulation, interstitial, computed tomography of liver necrosis from, 1148
legal aspects
  in electronic imaging and transmission, Suppl 3:S82
  in patient choice of nonionic contrast media, 303
letters to the editor, 187, 388, 786
lidocaine in protection of ischemic myocardium, 619
lipiodol, intraarterial injection affecting liver, 128
liposomes
  gas-filled, as echocardiographic contrast agents, 1155
  iopromide-based
    characterization of, 1028
    lyophilized, 838
  manganese-based, 933
  radiolabeled, for detecting infection, 356
liver
  ablation lesions induced by ultrasound, 796
  cirrhosis with spontaneous splenorenal shunt and scrotal swelling, 770
  computed tomography of
    in community practice, 1139
    comparison of IEEC and iohexol in, 513
  diffuse disease detection with quantitative ultrasonography, 1
  fatty infiltration quantification in, 297
  magnetic resonance imaging
    after arterial portography with manganese-DPDP, 335
    contrast media in, 753
    gadolinium-ethoxybenzyl-DTPA in, 26
    in hepatitis of Long-Evans Cinnamon rats, 1010
    hepatocyte evaluation with manganese-DPDP, 903
    manganese-mesoporphyrin in, 925
  magnetization transfer imaging of, 726
    compared to spin-echo images, 896
  needle biopsy of, electrocautery after, 228
  parenchymal changes after intraarterial injection of lipiodol, 128
  percutaneous treatment of hydatid cysts, 121
  receptor-binding radiopharmaceuticals, 64
  tumors of
    and CT images of laser-induced necrosis, 1148
    detection by contrast-assisted ultrasonography, 218
    detection with lyophilized iopromide-carrying liposomes, 838
    echo pattern changes with hepatoma growth, 507

experimental necrosis in, 896
histologic grade related to MRI signal intensity, 691
manganese-DPDP uptake by hepatoma in rats, 520
preoperative transcatheter hepatic arterial embolization in, 235
lungs
computer-aided diagnosis in chest radiography, 987
diseases of, bronchial arteriography in, 434
mechanisms in gravity-dependent atelectasis, 633
nodule detection
digital film-duplication system evaluation in, 1134
recognition enhancement in, 289
whole sections for CT-pathologic correlations, 242
lymph nodes, in-vitro high-resolution ultrasonography of, 698
lymphoma, Hodgkin's, 737, 848
lyophilization of iopromide-based liposomes, 838

M

Mafee, Mahmood, Distinguished Scientist for 1993-1994, 735
magnetic resonance angiography
assessment in-vitro, 604
current status of, Suppl 4:S43
in evaluation of potential kidney donors, 882
intracranial, Suppl 1:S16
as supplemental technique in peripheral ischemic disease, 656
three-dimensional, contrast-to-noise-ratio measurements in, 1004
magnetic resonance imaging
in abdominal fibromatosis in pregnancy, 260
advances in, Suppl 4:S32
after arterial portography with manganese-DPDP, 335
brain volume measurement in, 890
cardiovascular responses to contrast media in, 11
in carpal tunnel syndrome, 1059
comparison of contrast agents in myocardial infarction, 1015
contrast enhancement in CNS lesions, Suppl 1:S3
in corpus callosum impingement in animal model, 46
correlation with histology in brain ischemia, 994
fast gradient-echo, clot-blood contrast in, 586
gadodiamide in, Suppl 1:2
gadolinium-ethoxybenzyl-DTPA in, 26
in hepatitis of Long-Evans Cinnamon rats, 1010
histamine release induced by iodinated contrast media in, 308
and histologic grade of liver neoplasms, 691
large-tip-angle spin-echo imaging in, 944
liver contrast media in, 753
in lumbar disc herniation, Suppl 5:S62
magnetization transfer technique in liver studies, 726
compared to spin-echo images, 896
manganese-based liposomes in, 933
manganese-DPDP in
in evaluation of hepatocyte function, 903
uptake by hepatoma in rats, 520
manganese-mesoporphyrin in liver studies, 925
in multiplanar reconstruction of knee, 142
muscle T1 relaxation times after death, 529
in myocardial imaging, Suppl 4:S38
in necrosis of VX2 carcinoma in rabbits, 33
and new agent for interventional radiology, 1083
phase subtraction technique for blood flow studies, 109
short echo time for tendon studies, 1095
susceptibility effect of bone trabeculae in, 208
tumor detection with gadolinium-labeled monoclonal antibodies, 789
in vascular volume measurements in rat tumors, 710
magnetic resonance microscopy, nuclear, high-temperature superconducting receiver in, 1075
magnetic resonance spectroscopy. *See* spectroscopy, magnetic resonance
magnetic source imaging, Suppl 3:S153
magnetization transfer contrast MRI of liver, 726
compared to spin-echo images, 896
malpractice issues
in electronic imaging and transmission, Suppl 3:S82
in lawsuits in France, 459
mammography
digital
bilateral subtraction and single-image processing in, 473
spatial resolution in, 413
in invasive lobular carcinoma, 202
mobile, screen-film combinations for, 1113
residency training in, 762
manganese, in liposomes for magnetic resonance imaging, 933
manganese-DPDP
in arterial portography, MRI findings after, 335
in magnetic resonance imaging
in hepatocyte function evaluation, 903
uptake by hepatoma in rats, 520
manganese-mesoporphyrin in liver studies with MRI, 925
mannitol, renal effects of
in gentamicin nephropathy, 133
tubular, 319
Markov chain model of retrieval rates in analog film library, 1144
mentoring programs applied to radiology, 71
metrizamide, cardiac effects of, Suppl 5:S44
Mexico
medicine and radiology affected by Free Trade Agreement, Suppl 3:S31
postgraduate radiologic education, Suppl 3:S92
microangiography of hepatoma in rat model, 507
microbubbles in ultrasonography, and liver tumor detection, 218
microscopy, nuclear magnetic resonance, high-temperature superconducting receiver in, 1075
microtomography, computed, for bone mineral assessment, 341
monoclonal antibodies
gadolinium-labeled, for tumor detection with MRI, 789
radiolabeled
in anaplastic glioma, 488
for detecting infection, 356
multiplanar reconstruction
from CT data in skeletal trauma, 146
from MRI data in knee, 142
multiple abnormalities affecting observer performance, 191
muscle
metabolism in peripheral ischemic disease, 104
T1 relaxation times after death, 529
myelography, lumbar, nonionic contrast media in, Suppl 5:S62

N

nanocolloids, radiolabeled, for detecting infection, 356
neural networks, artificial, for single photon emission CT (SPECT), 671
neuroangiography, nonionic contrast agents in, Suppl 5:S55
neurofibromatosis, skull anthropometric measurements in, 116
neuroradiology
contrast enhanced MRI in, Suppl 1:S3
interventional, future directions of, Suppl 3:S150
in intracranial aneurysms, 373
iohexol and iopamidol binding to neural membrane receptors, 821
new technology affecting, Suppl 3:S73
radiolabeled monoclonal antibody 81C6 in, 488
research in, Suppl 3:S151
Norway, magnetic resonance imaging in, Suppl 3:S46

nuclear magnetic resonance microscopy, high-temperature superconducting receiver in, 1075

O

observer performance
clinical history and multiple abnormalities affecting, 191
with compressed digitized chest images, 398
in digital film-duplication system evaluation, 1134
in digital mammography, 413
in evaluation of cardiac cone—beam SPECT, 1101
problems in, Suppl 3:160
in pulmonary nodule recognition, 289
osmolality of contrast media affecting EKG in hysterosalpingography, 439
osteoarthritis
of hip, central acetabular osteophytosis in, 1120
of knee, reliability of grading scales in, 497

P

paratesticular mass, in an 18-year-old man, 1072
pediatric radiology
in bronchiolitis, 214
career opportunities in, 467
safety of nonionic contrast agents in, Suppl 5:S87
penile duplex ultrasonography compared to pudendal arteriography, 806
peptides, chemotactic, radiolabeled for detecting infection, 356
perfluorocarbons
perflubron echogenicity in flowing blood, 502
as ultrasound contrast agents, 325
as vascular contrast agents in MRI, 710
phantom studies
blood flow studies with phase subtraction MRI, 109
blood vessel diameter measurements on cineangiogram, 1128
brain volume measurement with MRI, 890
chest images with computed radiography, 482
contrast-to-noise-ratio measurements in three-dimensional magnetic resonance angiography, 1004
in evaluation of cardiac cone—beam SPECT, 1101
in-vitro assessment of magnetic resonance angiography, 604
screen-film combinations for mobile mammography, 1113
picture archiving and communication system (PACS)
proposal for international network, Suppl 3:S74
and videoconference for medical communication, Suppl 3:S76
platelet aggregation, nonionic contrast media affecting, Suppl 5:S21
Poland, radiologic education in, Suppl 3:S97
polyethyleneglycol in new agent for interventional radiology, 1083
portal hypertension, animal model of, 442
portography, arterial, manganese-DPDP in, MRI findings after, 335
Portugal, radiology in, Suppl 3:S34
positron-emission tomography of myocardial blood flow, Suppl 4:S47
potassium chloride interaction with contrast media, 911
pregnancy
abdominal fibromatosis in, 260
transplacental transfer and distribution of gadolinium-DTPA in rabbits, 828
pudendal arteriography compared to penile duplex ultrasonography, 806

Q

quality management techniques, 639
in cardiovascular and interventional radiology, 1063

R

radiation therapy, hormesis phenomenon in, 446, 451
radiologists
contemporary issues for, Suppl 4:1
responses to patients' inquiries about imaging results, 1043
radiology departments
administration and management of, 287
assessment of work efforts in, 263
public relations in, 385
quality improvement program in, 639
responsibilities in, 350
selection of new Chairperson, 979
staffing requirements in practice groups, 767
total quality management in, 1063
Radiology Diagnostic Oncology Group, collaborative evaluations of diagnostic tests, Suppl 2:S24
Radiology Outreach Foundation, international cooperation in, Suppl 3:S26
radionuclide studies
and combined radiology/nuclear medicine residency, 258
new agents for detecting infection, 356
receiver operating characteristic analysis (ROC)
in chest images with computed radiography, 482
in digital film-duplication system evaluation, 1134
in digital thoracic imaging, 398
in evaluation of cardiac cone—beam SPECT, 1101
free-response, in digital mammography, 473
validity of confidence rating scales in, 962
receptor-binding radiopharmaceuticals, 64
red blood cells
alterations from contrast media causing cerebral embolization, 831
trapping in renal microcirculation induced by contrast media, 1033
renal conditions
atherosclerotic calcifications seen on lumbar CT, 811
computer-assisted instruction in evaluation of masses, 169
contrast media-induced red-cell trapping in renal microcirculation, 1033
diuretics and contrast media affecting kidneys, 319
dynamic contrast CT in renal function studies, 1039
endothelin release induced by contrast agents, 313
endothelium-derived nitric oxide affecting contrast media toxicity, 814
function studies with computed tomography, Suppl 5:S79
gentamicin nephropathy in rats, 133
nephropathy associated with contrast media, Suppl 4:S11, Suppl 5:S1
with low-osmolality agents, Suppl 5:S7
potential kidney donors evaluated with magnetic resonance angiography, 883
spontaneous perinephric hemorrhage, 81
tubular effects of contrast media, 319
ultrasonography with parametric imaging, 720
research
and activities of Conjoint Committee for Diagnostic Radiology, Suppl 2:S52
applications of, Suppl 2:S49
clinical, design of, Suppl 2:S17
in contrast media, Suppl 3:S140
in diagnostic neuroradiology, Suppl 3:S151
and education in universities, Suppl 3:S96
financial support of laboratories, Suppl 3:S126
and future developments in imaging, Suppl 3:S119
and GE-AUR academic fellowship, 395
and grantsmanship, Suppl 2:S3
need for, 283
overview of, Suppl 3:S121
prospects in the U.S., Suppl 3:S2. *See also* United States
role in radiotherapy training program, 649
standardized forms for informed consent in, 533
and success in teaching, 383

technology assessment in diagnostic imaging, 155
university research center, Suppl 3:S127
residency
breast imaging curriculum, 762
cardiac imaging training, 874
career opportunities in pediatric imaging, 467
and Certificates of Added Qualifications, 268
combined radiology/nuclear medicine program, 258
computer-assisted instructional tools, 169
interactive videodisc in, 1052
criteria for selection of applicants, 99, 181
evaluation of applicants by letters of recommendation, 274
fiscal pressures on programs, 981
hiring new partners for radiology practice, 1079
improvements in night-call rotations, 92
job search techniques, 779
late bloomers in, 264
mentoring in, 71
moonlighting in, 392
multimedia textbook compared to standard lecture in, 643
preradiology clinical training affecting performance in, 1090
radiologic pathology course, 562
reading program in, 278
remedial programs in, 269, 465
reminiscences of Dr. Berk, 281
research role in radiotherapy training, 649
residents as teachers, 469
specialty and subspecialty accreditation and certification, 393
survey of chief residents in 1992, 96
teaching conferences in, 390
training in diplomacy, 661
training in the U.S., Suppl 3:S101
respiratory distress syndrome in adults, computed tomography in animal model of, 39
retrieval rates in analog film library, Markov chain model of, 1144
retroperitoneal cyst in adult woman, 868
rhabdomyosarcoma of epididymis, embryonal, 1072
Roentgen's discovery of x-rays, 51
and genealogy of barium platinocyanide screen, 954
Russia
diagnostic efficiency of electronic imaging in, Suppl 3:S91
radiology in, Suppl 3:S38

S

scatter compensation for digital chest films, 427
in portable chest radiographs, 667
schwannoma, malignant, in childhood, 974
scrotal swelling in spontaneous splenorenal shunt, 770
shock waves affecting tumor blood flow, 611
simulation model in prediction of teleradiology system throughput, 162
Singapore, industry and radiology in, Suppl 3:S63
single photon emission computed tomography (SPECT)
artificial neural networks for, 671
cone—beam collimator with, evaluation of, 1101
and radiolabeled monoclonal antibody 81C6 in gliomas, 488
skull
anthropometric measurements in neurofibromatosis, 116
fracture detection
in different imaging conditions, 231
digital and conventional radiography in, 686
sodium balance with calcium
isotonic iodixanol affecting, 20
in nonionic contrast media, 223
South America
postgraduate radiologic education in, Suppl 3:S92
radiology in, Suppl 3:S28
spectroscopy, magnetic resonance
of calf muscle in peripheral ischemic disease, 104
of fatty infiltration in liver, 297
of lidocaine effects in ischemic myocardium, 619
spermatogenesis, diatrizoate and iopamidol affecting, 1160
spine
atherosclerotic calcifications seen on lumbar CTs, 811
fractures related to bone mineral density, 573
nonionic contrast media in lumbar myelography, Suppl 5:S62
splenorenal shunt, spontaneous
with cirrhosis, scrotal swelling in, 770
scrotal swelling in, 770
starch microspheres for cerebral artery embolization, 150
statistical analysis
confidence intervals in, 59
confidence rating scales in ROC studies, 962
stereotactic needle guidance, three-dimensional, 845
stomach abscess, intramural, mimicking leiomyoma, 175
storage phosphor radiography
hybrid cassette images in, 409
in skull fracture detection, 231, 686
survival of cancer patients, imaging technology affecting, Suppl 3:S132
Sweden
radiology in, Suppl 3:S13, S44
university hospitals and bureaucracies in, Suppl 3:S108
Switzerland, radiologic education in, Suppl 3:S99

T

technetium-99m, leukocytes labeled with, for detecting infection, 356
technetium 99m-galactosyl-neoglycoalbumin in hepatic functional imaging, 64
telecommunication
and fax transmission of radiographic images, 860
PACS and videoconference in, Suppl 3:S76
real-time review of remote ultrasound in, 732
teleradiology system throughput, prediction of, 162
tendon studies with short echo time MRI, 1095
testis, inflammatory mass in, 1072
thoracic imaging. *See* chest films
thromboembolism etiology
clinical considerations in, Suppl 5:S31
properties of contrast agents in, Suppl 5:S25
thrombolysis, ultrasound-assisted, 939
thrombosis
coronary, and effects of nonionic contrast media, Suppl 5:S21
deep venous, fast magnetic resonance imaging in, 586
tumors
abdominal fibromatosis in pregnancy, 260
blood flow affected by shock waves, 611
brain, contrast enhanced MRI in, Suppl 1:S3
breast cancer, invasive lobular, 202
detection with gadolinium-labeled monoclonal antibodies in MRI, 789
embryonal rhabdomyosarcoma of epididymis, 1072
Hodgkin's disease, 737, 848
leiomyosarcoma of inferior vena cava, 774
liver. *See* liver, tumors of
malignant schwannoma in childhood, 974
necrotic areas in VX2 carcinoma of rabbits, 33
new agent for interventional radiology, 1083
radiolabeled monoclonal antibody 81C6 in gliomas, 488
vascular volume measurements in rats, 710

U

ultrasonography
abdominal, after barium enema examination, 295
calculation of tissue attenuation in, 598
in cardiac diagnosis, Suppl 4:S19
in carpal tunnel syndrome, 1059
compared to oral cholecystography in chronic cholecystitis, 404
computer-assisted, electronic focusing affecting, 7
contrast-assisted, in liver tumor detection, 218
duplex, in penile blood flow evaluation, 806
hepatoma echo pattern changes with tumor growth, 507
in-vitro high-resolution scans of lymph nodes, 698
in invasive lobular carcinoma of breast, 202
of liver ablation lesions induced by high-intensity ultrasound, 796
and perflubron echogenicity in flowing blood, 502
perfluorocarbons as contrast agents in, 325
quantitative, in diffuse liver disease, 1
remote, real-time review of, 732
renal studies with parametric imaging, 720
ultrasound
and characteristics of sonolesions in liver, 796
intravascular, thrombolytic agents with, 939
United Kingdom
observer performance problems in, Suppl 3:S160
radiology in, Suppl 3:S42
United States
contrast media research, Suppl 3:S138
developments in positron-emission tomography, Suppl 3:S142
economic trends and medical technology, Suppl 3:S5, S23
imaging technology affecting cancer survival, Suppl 3:S132
integration of technology, education, and research, Suppl 3:S96
magnetic source imaging, Suppl 3:S153
neurointerventional radiology, Suppl 3:S150
new cardiac imaging technologies, Suppl 3:S144, S146, S148
prospects for science, Suppl 3:S2
public policy and funding issues in health care, Suppl 4:S56
radiologic education, Suppl 3:S101
research in imaging, Suppl 3:S119, S121
role of journals in research, Suppl 3:S163
support for research laboratories, Suppl 3:S126
technology and hospital budgets, Suppl 3:S112
technology and recruitment, Suppl 3:S104
technology assessment, Suppl 3:S57
turf battles in radiology, Suppl 3:S70
university research center, Suppl 3:S127
urokinase, and ultrasound-assisted thrombolysis, 939
uroradiology
in Europe, 653
low-osmolar contrast media in, Suppl 5:S13

V

vasculature
absence of angiogenic factor in arteriovenous malformations, 594
atherosclerotic calcifications seen on lumbar CTs, 811
blood vessel diameter measurements on cineangiogram, 1128
bronchial arteriography in lung disease, 434
cerebral artery embolization with starch microspheres, 150
coronary. *See* coronary arteries
deep venous thrombosis detection with fast MRI, 586
leiomyosarcoma of inferior vena cava, 774
muscle metabolism in peripheral ischemic disease, 104
new occlusion device, 1165
penile duplex ultrasonography compared to pudendal arteriography, 806
volume measurements in rat tumors, 710
vasoconstrictor interactions with contrast media, 911
vena cava, inferior, leiomyosarcoma of, 774
venography, subclavian, and iopamidol clearance in hemodialysis, 629
ventricular fibrillation, and sodium-calcium balance in nonionic contrast media, 223
videodisc system
interactive, in computer-assisted instruction, 1052
for teaching medical students, 969
visceral angiography, safety of nonionic agents in, Suppl 5:S39
VX2 tumor of rabbits
comparison of contrast agents for CT liver imaging in, 513
and hepatic parenchymal changes after intraarterial injection of lipiodol, 128
necrotic areas in, 33

W

World Health Organization programs in third-world countries, Suppl 3:S24

STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION (Act of August 2, 1970: Section 3685, Title 39 United States Code) Date of Filing—October 1, 1993. Title of Publication—*INVESTIGATIVE RADIOLOGY;* Frequency of Issue—Monthly; Annual Subscription Price—$178.00; Location of Known Office of Publication—12107 Insurance Way, Suite 114, Hagerstown, MD 21740; Location of Headquarters or General Business Offices of the Publisher—J.B. Lippincott Company, East Washington Square, Philadelphia, PA 19106; Publisher—J.B. Lippincott Company, 227 East Washington Square, Philadelphia, PA 19106; Editor—Bruce J. Hillman, MD, University of Virginia Health Science Center, Box 170, Room 1076, Charlottesville, VA 22908; Managing Editor—Darcy Phillips, 1224 West Main Street, Suite 605, Charlottesville, VA 22903; Owner—J.B. Lippincott Co., 227 East Washington Square, Philadelphia, PA 19106; Known Bondholders, Mortgagees, and other security holders owning or holding 1 percent or more of total amount of bonds, mortgages, or other securities—Wolters Kluwer, U S. Corporation, 1185 Avenue of the Americas, 37th Floor, New York, NY 10036. A. Total no. copies printed (*net press run*), average 3067, actual 2700; B. Paid circulation 1. Sales through dealers and carriers, street vendors and counter sales, average none, actual none; 2. Mail subscriptions, average 2512, actual 2446; C. Total paid circulation, average 2512, actual 2446; D. Free distribution by mail, carrier or other means. Samples complimentary, and other free copies, average 214, actual 121; E. Total distribution (*sum of C and D*), average 2726, actual 2567; F. Copies not distributed 1. Office use, leftover, unaccounted, spoiled after printing, average 341, actual 133. Returns from news agents, none; G. Total (*sum of E & F—should equal net press run shown in A*), average 3067, actual 2700. I certify that the statements made by me above are correct and complete. Virginia B. Martin, *Vice President, Journals.*

Author Index — Volume 28

A

Abbasoğlu, O.: *see* Akhan, O.
Abe, K., Doi, K., MacMahon, H., Giger, M. L., Jia, H., Chen, X., Kano, A., Yanagisawa, T.: Computer-aided diagnosis in chest radiography: Preliminary experience, 987
Abe, K.: *see* Hoffman, K. R.
Aberle, D. R., Gleeson, F., Sayre, J. W., Brown, K., Batra, P., Young, D. A., Stewart, B. K., Ho, B. K. T., Huang, H. K.: The effect of irreversible image compression on diagnostic accuracy in thoracic imaging, 398
Abrams, H. L.: Turf battles in radiology for the 1990s, Suppl 3: S70
Adelstein, S. J.: Preparing a grant proposal, Suppl 2: S10
Adler, D. D.: *see* Helvie, M. A.
Aggarwal, S. K.: Problems of radiology in the Indian subcontinent, Suppl 3: S32
Aggeler, J.: *see* Sidhu, M. K.
Aires de Sousa, L.: Technology in Portugal, the European community, and developing countries, Suppl 3: S34
Aisen, A. M.: *see* Sze, G.
Akashi, Y., Koreeda, C., Mizuno, T., Inoue, K., Kawa, S.-K. H., Tanaka, Y.: Hepatic parenchymal changes after the intraarterial injection of lipiodol in tumor-bearing rabbits, 128
Akhan, O., Dincer, A., Gököz, A., Sayek, I., Havlioğlu, S., Abbasoğlu, O., Eryilmaz, M., Besim, A., Baris, I.: Percutaneous treatment of abdominal hydatid cysts with hypertonic saline and alcohol: An experimental study in sheep, 121
Alanen, A. M., Parkkola, R. K., Lillsunde, I. G. V., Virtanen, K. O. J., Kalimo, H. O., Komu, M. E., Kormano, M. J.: The effects of the method of death and lapsed time on proton relaxation time T1 in autopsied muscle samples, 529
Alazraki, N.: Clinical practice versus research: How can radiology win?, 985
Alazraki, N. P.: The grantsmanship workshop 1986–1992 and radiology research funding, Suppl 2: S6
Alazraki, N. P.: The grantsmanship workshop proceedings, Suppl 2: S1
Albanese, M. A.: *see* D'Alessandro, M. P.
Albanese, M. A.: *see* Moore, T. E.
Alexander, G. M.: *see* Boone, J. M.
Aliabadi, P.: *see* Chopra, P. S.
Allison, D. J.: The impact of new imaging technology on interventional radiology, Suppl 3: S73
Altmaier, E. M.: *see* Gay, S. B.
Altmaier, E. M.: *see* O'Halloran, C. M.
Amin, Z., Thurrell, W., Spencer, G. M., Harries, S. A., Grant, W. E., Bown, S. G., Lees, W. R.: Computed tomography—pathologic assessment of laser-induced necrosis in rat liver, 1148
Amplatz, K.: *see* Nazarian, G. K.
Anderson, K. L.: *see* Berbaum, K. S.
André, M. P., Steinbach, G., Mattrey, R. F.: Enhancement of the echogenicity of flowing blood by the contrast agent perflubron, 502
Andreopoulos, D.: *see* Müller-Leisse, C.
Argabright, M.: *see* Debatin, J. F.
Arisawa, J.: *see* Tomiyama, N.
Armstrong, J. D., II: Radiologists' responses to patients' inquiries about results, 1049
Arredondo, F.: Technology and practice of radiology in Central America, Suppl 3: S30
Aspelin, P.: Radiology in Sweden: Today and tomorrow, Suppl 3: S13
Aung, M.: *see* Gallen, C. C.

B

Bååth, L., Besjakov, J., Oksendal, A.: Sodium-calcium balance in nonionic contrast media: Effects on the risk of ventricular fibrillation in the isolated rabbit heart, 223
Bååth, L.: *see* Karstoft, J.
Babcook, C. J., Norman, G. R., Coblentz, C. L.: Effect of clinical history on the interpretation of chest radiographs in childhood bronchiolitis, 214
Baert, A. L.: The impact of government on the practice of radiology in Belgium, Suppl 3: S39
Baert, A. L.: *see* Ni, Y.
Baker, D. G.: The role of research in a radiotherapy training program, 649
Baker, S. R.: *see* Yaghmai, V.
Balut, C.: *see* Touati, C.
Baris, I.: *see* Akhan, O.
Barloon, T. J.: *see* Renfrew, D. L.
Barr, L. L., Shaffer, K., Valley, K., Hillman, B. J.: Mentoring: Applications for the practice of radiology, 71
Batra, P.: *see* Aberle, D. R.
Bauer, J. C.: Public policy and funding issues: The role of the clinician, Suppl 4: S56
Baum, R. A.: *see* Cope, C.
Baum, S.: Technology and the status of recruitment into academic radiology in the United States, Suppl 3: S104
Baxter, A. B., Lazarus, S. C., Brasch, R. C.: In vitro histamine release induced by magnetic resonance imaging and iodinated contrast media, 308
Baydush, A. H.: *see* Floyd, C. E., Jr.
Beam, C. A.: *see* Evans, A. J.
Beard, D. V.: *Computed digital radiography in clinical practice*, 90
Beaufils, H.: *see* Touati, C.
Benness, G. T.: Impact of technology on clinical practice in Australia, Suppl 3: S114
Berbaum, K. S., Franken, E. A., Jr., Anderson, K. L., Dorfman, D. D., Erkonen, W. E., Farrar, G. P., Geraghty, J. J., Gleason, T. J., MacNaughton, M. E., Phillips, M. E., Renfrew, D. L., Walker, C. W., Whitten, C. G., Young, D. C.: The influence of clinical history on visual search with single and multiple abnormalities, 191
Berbaum, K. S.: *see* Renfrew, D. L.
Bercich, L.: *see* Longo, R.
Berg, K. J.: *see* Jakobsen, J. Å.
Berk, R. N.: Reminiscences and reflections, 281
Bernardino, M. E.: Is the safety of contrast agents an issue in body computer tomography?, Suppl 5: S68
Bernasconi, P.: *see* Mennini, T.
Berns, J. S.: *see* Goldfarb, S.
Berthezène, Y.: *see* Mühler, A.
Besim, A.: *see* Akhan, O.
Besjakov, J.: *see* Bååth, L.
Besjakov, J.: *see* Leander, P.
Bigner, D. D.: *see* Schold, S. C., Jr.
Bigner, S. H.: *see* Schold, S. C., Jr.
Billings, P. J.: *see* Davies, J. P.
Black, R. D.: Response, 1075
Blatter, D. D.: *see* Du, Y.
Blomley, M. J. K., Coulden, R., Bufkin, C., Lipton, M. J., Dawson, P.: Contrast bolus dynamic computed tomography for the measurement of solid organ perfusion, Suppl 5: S72
Blum-Boisgard, C.: *see* Durand-Zaleski, I.
Böckenholt, U., Weber, E. U.: Toward a theory of hypothesis generation in diagnostic decision making, 76
Bogdanov, A.: *see* Weissleder, R.
Bogdanova, A.: *see* Weissleder, R.
Bonnemain, B.: *see* Touati, C.
Boone, J. M., Alexander, G. M., Seibert, J. A.: A fluoroscopy-based computed tomography scanner for small specimen research, 539
Bosch, E.: *see* Varich, L.
Bourbouze, R.: *see* Touati, C.
Bowers, P.: *see* DiMario, F. J., Jr.
Bown, S. G.: *see* Amin, Z.
Bowsher, J. E.: *see* Floyd, C. E., Jr.
Boxt, L. M.: *see* White, R. D.
Boxt, L. M.: *see* White, R. D.
Boyd, D. P.: New horizons in cardiac imaging: Screening for coronary artery disease using ultrafast computed tomography, Suppl 3: S148
Bozadjian, E.: *see* Chopra, P. S.
Bradley, W. G., Jr.: *see* Sze, G.
Bradshaw, A.: *see* Dawson, P.
Brady, T.: *see* Weissleder, R.
Braeuning, P.: *see* Gerhardt, D. A.
Bragg, D. G.: The impact of imaging technology on cancer survival: 1970 to 1992, Suppl 3: S132
Brandon, J. C.: *see* Kannegieter, L. S.
Brant-Zawadzki, M.: *see* Sze, G.
Brasch, R. C.: *see* Baxter, A. B.
Brasch, R. C.: *see* Mühler, A.
Brasnu, D.: *see* Laccourreye, O.
Brezis, M.: *see* Heyman, S. N.
Brimhall, D.: Technology and hospital budgets in an era of retrenchment, Suppl 3: S112
Britton, C. A.: *see* King, J. L.
Brody, W. R.: Research in imaging: An overview, Suppl 3: S121
Brown, K.: *see* Aberle, D. R.
Bruser, D.: *see* Varich, L.
Budinger, T. F.: Future developments in positron-emission tomography for incorporation into the clinical sphere, Suppl 3: S142
Bufkin, C.: *see* Blomley, M. J. K.
Burch, J. J.: *see* Gay, S. B.
Burleson, J.: *see* DiMario, F. J., Jr.
Burns, C.: *see* Gerhardt, D. A.
Burwell, N.: *see* Donnelly, P. K.

C

Cabanis, E. A.: Electronic imaging, transmission, and forensic medicine: New frontiers, Suppl 3: S82
Cai, X.-L.: *see* Teng, G.-J.
Camarata, P. J., Latchaw, R. E., Rüfenacht, D. A., Heros, R. C.: Intracranial aneurysms, 373
Cantley, L.: *see* Heyman, S. N.

Capp, M. P.: Worldwide picture archiving and communication system: Proposal for an international network, Suppl 3: S74
Cardoso, J. M.: The impact of the free trade agreement on Mexican medicine and radiology, Suppl 3: S31
Carpenter, J. P.: *see* Cope, C.
Carroll, B. A.: *Abdominal sonography*, 983
Carroll, B. A.: *Intravascular ultrasound imaging*, 984
Castañeda-Zúñiga, W. R.: *see* Nazarian, G. K.
Castillo, M.: *Handbook of neuroradiology*, 184
Castillo, M.: *Imaging of the spine and spinal cord*, 664
Castillo, M.: *Imaging of the temporal bone*, Second Edition, 185
Castronovo, F. P., Jr.: An attempt to standardize the radiodiagnostic risk statement in an institutional review board consent form, 533
Chan, K. M.: *see* Fajardo, L. L.
Chandra, R.: *see* Rusinek, H.
Chang, C. A.: Magnetic resonance imaging contrast agents: Design and physicochemical properties of gadodiamide, Suppl 1: S21
Chen, N. C.: *see* Gay, S. B.
Chen, X.: *see* Abe, K.
Chew, F. S., Smirniotopoulos, J. G.: Educational efficacy of computer-assisted instruction with interactive videodisc in radiology, 1052
Chezmar, J. L.: *see* Nelson, R. C.
Choi, B. I., Lee, D. H., Han, M. C.: Necrotic areas in VX2 carcinoma of rabbits: Correlation of magnetic resonance imaging and pathologic appearance, 33
Chopra, P. S., Kandarpa, K., Aliabadi, P., Viera, M., Bozadjian, E., Holman, B. L.: Total quality management in cardiovascular and interventional radiology, 1063
Clark, B. A.: *see* Heyman, S. N.
Clément, O.: *see* Mühler, A.
Coblentz, C. L.: *see* Babcook, C. J.
Cohen, A. M.: *see* Crass, J. R.
Cohen, M. D.: A review of the toxicity of nonionic contrast agents in children, Suppl 5: S86
Cohen, M. S., Fordham, J.: Developments in magnetic resonance imaging, Suppl 4: S32
Coldwell, D.: *see* Schenck, E.
Coleman, R. E.: *see* Schold, S. C., Jr.
Conge, E.: *see* Durand-Zaleski, I.
Conrad, J.: *see* Göhr-Rosenthal, S.
Cope, C., Owen, R. S., Baum, R. A., Carpenter, J. P., Perloff, L. J.: Magnetic resonance imaging of angiographically occult run off vessels in peripheral arterial occlusive disease. Authors' response, 658
Copeland, B.: *see* Gallen, C. C.
Coulden, R.: *see* Blomley, M. J. K.
Cousins, C.: *see* Dawson, P.
Covens, P.: *see* Louis, O.
Cowan, R. J.: *see* Maynard, C. D.
Crass, J. R., Cohen, A. M., Wiesen, E., Shah, Z.: Hyperlucent thorax from rotation: Anatomic basis, 567
Crocé, L. S.: *see* Longo, R.
Crolla, R. M. P. H.: *see* van der Grond, J.
Cummings, O. W.: *see* Kim, E. H.
Cuttino, J. T., Jr.: *Hysterosalpingography: A text and atlas*, 91

D

Dae, M. W.: *see* Yu, K. K.
D'Alessandro, M. P., Galvin, J. R., Erkonen, W. E., Albanese, M. A., Michaelsen, V. E., Huntley, J. S., McBurney, R. M., Easley, G.: The instructional effectiveness of a radiology multimedia textbook (hyperlung) versus a standard lecture, 643
Danz, P. L.: *see* Mann, F. A.
Darcy, M. D.: *see* Picus, D.
D'Arrigo, J. S., Ho, S.-Y., Simon, R. H.: Detection of experimental rat liver tumors by contrast-assisted ultrasonography, 218
Datz, F. L., Morton, K. A.: New radiopharmaceuticals for detecting infection, 356
Davies, J. P., Billings, P. J., Jones, M. R.: Intramural gastric abscess mimicking leiomyoma: Clinical, radiologic, and pathologic features of an unusual gastric lesion, 175
Davis, P. L.: *see* King, J. L.
Davis, W. L.: *see* Du, Y.
Dawson, P.: The clotting issue--etiologic factors in thromboembolism: I. Chemistry, pharmacology, and toxicity of angiographic contrast agents, Suppl 5: S25
Dawson, P., Cousins, C., Bradshaw, A.: The clotting issue--etiologic factors in thromboembolism: II. Clinical considerations, Suppl 5: S34
Dawson, P., Kennedy, A., Petty, R. G.: Absence of an angiogenic factor in large systemic arteriovenous malformations, 594
Dawson, P., Peters, A. M.: Functional imaging in computed tomography: The use of contrast-enhanced computed tomography for the study of renal function and physiology, Suppl 5: S79
Dawson, P., Peters, M.: Dynamic contrast bolus computed tomography for the assessment of renal function, 1039
Dawson, P.: *see* Blomley, M. J. K.
DeAngelis, G. A., Sistrom, C. L., Watson, L. R.: Large paratesticular mass in an 18-year-old man, 1072
Debas, H. T.: Impact of the changing economy and new technology on surgical practice and education, Suppl 3: S23
Debatin, J. F., Sostman, H. D., Knelson, M., Argabright, M., Spritzer, C. E.: Renal magnetic resonance angiography in the preoperative detection of supernumerary renal arteries in potential kidney donors, 882
Delling, G.: *see* Engelke, K.
Deray, G.: *see* Touati, C.
Derugin, N.: *see* Wendland, M. F.
Derugin, N.: *see* Yu, K. K.
Deutsch, L.-S.: *see* Kannegieter, L. S.
de Vuyst, P.: *see* Gevenois, P. A.
DeYoung, D.: *see* Unger, E.
Dicke, K.: *see* Gerhardt, D. A.
Dillehay, D. L.: *see* Nelson, R. C.
DiMario, F. J., Jr., Bowers, P., Jagjivan, B., Burleson, J., Langshur, S., Greenstein, R. M.: Analysis of skull anthropometric measurements in patients with neurofibromatosis type-1, 116
Dincer, A.: *see* Akhan, O.
Doi, K.: *see* Abe, K.
Doi, K.: *see* Hoffman, K. R.
Doi, K.: *see* Yin, F.-F.
Domas, L.: *see* Laccourreye, O.
Donnelly, P. K., Burwell, N., McBurney, A., Ward, J. W., Walls, J., Watkin, E. M.: Hemodialysis and iopamidol clearance after subclavian venography, 629
Dorfman, D. D.: *see* Berbaum, K. S.
Dorph, S.: *see* Thomsen, H. S.
Doucet, D.: *see* Touati, C.
Drayer, B. P.: *see* Sze, G.
Dreesen, R. G.: *see* Kim, E. H.
Dreisbach, J. N.: *see* Sze, G.
Droz, D.: *see* Moreau, J.-F.
Du, Y., Parker, D. L., Davis, W. L., Blatter, D. D.: Contrast-to-noise-ratio measurements in three-dimensional magnetic resonance angiography, 1004
Dunnick, N. R.: *Spontaneous perinephric hemorrhage: Imaging and management*, 81
Durand-Zaleski, I., Moreau, J.-F., Conge, E., Blum-Boisgard, C.: Medical malpractice in France: The effects of a two-fold jurisdiction and the case of radiology, 459
Dwyer, S. J., Stewart, B. K., Spraggins, T. A.: Modeling of analog film-file radiographic retrievals: A Markov chain, 1144
Dwyer, S. J., III: *see* Stewart, B. K.
Dyer, R. B.: *see* Jarow, J. P.
Dyer, R. B.: *see* Zagoria, R. J.

E

Easley, G.: *see* D'Alessandro, M. P.
Ebert, W.: *see* Göhr-Rosenthal, S.
Ebert, W.: *see* Schmiedl, U. P.
Eckelman, W. C.: *see* Stadalnik, R. C.
Edeiken, B. S.: Remedial program for diagnostic radiology residents, 269
Edeikin, B. S.: Abandoned in the maze, 465
Edelman, R. R.: Magnetic resonance angiography: An overview, Suppl 4: S43
Edvinsson, L.: *see* Karstoft, J.
Elam, E. A.: *see* Friedman, D. L.
Elmore, J. G.: *see* Taylor, C. R.
Elster, A. D., Provost, T. J.: Large-tip-angle spin-echo imaging: Theory and applications, 944
Enge, I. P.: Safety of nonionic agents in visceral angiography, Suppl 5: S39
Engelke, K., Graeff, W., Meiss, L., Hahn, M., Delling, G.: High spatial resolution imaging of bone mineral using computed microtomography: Comparison with microradiography and undecalcified histologic sections, 341
Epstein, F. H.: *see* Heyman, S. N.
Erikson, U.: Function of a University Hospital and its relation to bureaucracy, Suppl 3: S108
Erkonen, W.: Residents are good teachers, 469
Erkonen, W. E.: *see* Berbaum, K. S.
Erkonen, W. E.: *see* D'Alessandro, M. P.
Eryilmaz, M.: *see* Akhan, O.
Espinoza, F. P.: *see* Kannegieter, L. S.
Evans, A. J., Iwai, F., Grist, T. A., Sostman, H. D., Hedlund, L. W., Spritzer, C. E., Negro-Vilar, R., Beam, C. A., Pelc, N. J.: Magnetic resonance imaging of blood flow with a phase subtraction technique: In vitro and in vivo validation, 109
Evens, R. G.: Medical technology and national economy in the United States: Trends, Suppl 3: S5
Evens, R. G.: *see* Horstman, W. G.

F

Fajardo, L. L., Chan, K. M.: Evaluation of medical students in radiology: Written testing using uncued multiple-choice questions, 964
Fajardo, L. L.: *see* Friedman, D. L.
Fält, K.: *see* Leander, P.
Farrar, G. P.: *see* Berbaum, K. S.

Feinendegen, L. E.: *see* Loken, M. K.
Feinstein, S. B.: Advances in contrast echocardiography, Suppl 4: S26
Felix, R.: Technology and radiologic education in Germany, Suppl 3: S106
Fiori, M. G.: *see* Mennini, T.
Fishman, E. K., Ney, D. R., Kawashima, A., Scott, W. W., Jr., Robertson, D. D.: Effect of image display on the quality of multiplanar reconstruction of computed tomography data, 146
Fishman, E. K.: *see* Rabushka, L. S.
Fishman, E. K.: *see* Reichle, R. L.
Flower, C. D. R.: The impact of government reforms on radiologic practice in the United Kingdom, Suppl 3: S42
Floyd, C. E., Jr., Baydush, A. H., Lo, J. Y., Bowsher, J. E., Ravin, C. E.: Scatter compensation for digital chest radiography using maximum likelihood expectation maximization, 427
Fordham, J.: *see* Cohen, M. S.
Fox, J. E.: Investigative partnership with industry, Suppl 2: S41
Frank, H.: *see* Weissleder, R.
Frank, J. A.: *see* Putman, C. E.
Franken, E. A., Jr.: Whys and wherefores of resident research in radiology, 283
Franken, E. A., Jr.: *see* Berbaum, K. S.
Franken, E. A., Jr.: *see* O'Halloran, C. M.
Freeman, D. M.: *see* Koblik, P. D.
Frenzel, T.: *see* Schmiedl, U. P.
Friedman, A. H.: *see* Schold, S. C., Jr.
Friedman, D. L., Hunter, T. B., Elam, E. A., Hunt, K. R., Fajardo, L. L.: Sonographic image degradation after barium enema, 295
Friedman, P. J.: Standards for authorship and publication in academic radiology: AUR Ad Hoc Committee on Standards for the Responsible Conduct of Research, 879
Friedman, P. J., James, A. E., Jr.: Meeting of the Council of Academic Societies and the Association of American Medical Colleges, 557
Frieling, J. T. M.: *see* Karssemeijer, N.
Fritz, T.: *see* Unger, E.
Fritz, T.: *see* Unger, E.
Fritz-Zieroth, B.: *see* Miyazawa, T.
Fryback, D. G.: *see* Hillman, B. J.
Fuchs, W. A.: Radiology in developing countries, Suppl 3: S27
Fujita, N.: *see* Nakakoshi, T.
Fujiwara, K.: *see* Tanaka, F.
Fulton, J.: Public policy and funding issues: The role of the clinician from a Canadian perspective, Suppl 4: S59
Furuhama, K.: *see* Harpur, E. S.

G

Gallen, C. C., Sobel, D. F., Schwartz, B., Copeland, B., Waltz, T., Aung, M.: Magnetic source imaging: Present and future, Suppl 3: S153
Galliani, C. A.: *see* Yang, R.
Galliani, C. A.: *see* Yang, R.
Galvin, J. R.: *see* D'Alessandro, M. P.
Gamarra, F., Naegele, M., Lumper, W., Goetz, A. E.: Acute effects of shock waves on tumors assessed by magnetic resonance imaging: Possible role of blood flow reduction, 611
Gao, G.-R.: *see* Teng, G.-J.
Garrison, M. H.: *see* Nelson, R. C.
Gatsonis, C., McNeil, B. J.: Collaborative evaluations of diagnostic tests: Experience of the radiology diagnostic oncology group, Suppl 2: S24
Gavant, M. L.: Low-osmolar contrast media during urography in the 1990s: Guidelines for use in a cost-sensitive environment, Suppl 5: S13
Gay, S.: *MRI of the Shoulder: Clinical situations in management*, 565
Gay, S. B., Chen, N. C., Burch, J. J., Gleason, T. R., Sagman, A. M.: Multiplanar reconstruction in magnetic resonance evaluation of the knee: Comparison with film magnetic resonance interpretation, 142
Gay, S. B., Hillman, B. J., McNulty, B. C., Altmaier, E. M., Smith, W. L.: The effect of preradiology clinical training on the performance of radiology residents, 1090
Gay, S. B.: *see* Sistrom, C. L.
Gay, S. B.: *see* Sistrom, C. L.
Gazelle, G. S.: *see* Wolf, G. L.
Geraghty, J. J.: *see* Berbaum, K. S.
Gerhardt, D. A., Pisano, E. D., Johnson, C., Braeuning, P., Dicke, K., Washburn, D. B., Burns, C., Huang, K. S.: Effects of delayed processing on mammographic phantom object detection, 1113
Gevenois, P. A., Koob, M.-C., Jacobovitz, D., de Vuyst, P., Yernault, J.-C., Struyven, J.: Whole lung sections for computed tomographic–pathologic correlations: Modified Gough-Wentworth technique, 242
Giger, M. L.: *see* Abe, K.
Giger, M. L.: *see* Yin, F.-F.
Glantz, M. J.: *see* Schold, S. C., Jr.
Gleason, T. J.: *see* Berbaum, K. S.
Gleason, T. R.: *see* Gay, S. B.
Gleeson, F.: *see* Aberle, D. R.
Glover, G.: *see* Li, K. C. P.
Goetz, A. E.: *see* Gamarra, F.
Göhr-Rosenthal, S., Schmitt-Willich, H., Ebert, W., Conrad, J.: The demonstration of human tumors on nude mice using gadolinium-labelled monoclonal antibodies for magnetic resonance imaging, 789
Gököz, A.: *see* Akhan, O.
Goldfarb, S., Spinler, S., Berns, J. S., Rudnick, M. R.: Low-osmolality contrast media and the risk of contrast-associated nephrotoxicity, Suppl 5: S7
Goldman, S. M.: *see* Rabushka, L. S.
Golman, K.: *see* Leander, P.
Golman, K.: *see* Thomsen, H. S.
Gooding, C. A.: Radiology outreach foundation: A model for international cooperation, Suppl 3: S26
Grabowski, E. F., Head, C., Michelson, A. D.: Nonionic contrast media: Procoagulants or clotting innocents?, Suppl 5: S21
Graeff, W.: *see* Engelke, K.
Grant, W. E.: *see* Amin, Z.
Grantham, J. R.: Radiology resident selection: Results of a survey, 99
Grassmann, P. H.: Industry and university partnerships in imaging, Suppl 3: S123
Greenspan, R. H.: Grantsmanship, Suppl 2: S3
Greenstein, R. M.: *see* DiMario, F. J., Jr.
Grist, T. A.: *see* Evans, A. J.
Grosfeld, J. L.: *see* Yang, R.
Grosfeld, J. L.: *see* Yang, R.
Gullberg, G. T.: *see* Tsui, B. M. W.
Günther, R. W.: *see* Klein, H.-M.
Günther, R. W.: *see* Langen, H. J.
Günther, R. W.: *see* Müller-Leisse, C.
Guo, J.-H.: *see* Teng, G.-J.
Gupta, K. L.: *see* Williams, J. P.
Gur, D.: *see* King, J. L.

H

Hagino, N.: *see* Xiong, L.
Hahn, G. M.: *see* Li, K. C. P.
Hahn, M.: *see* Engelke, K.
Halpern, E. J.: Calculation of tissue attenuation with a clinical ultrasound unit, 598
Halpern, E. J.: Effect of focal zone on a curved array transducer, 7
Hals, P.-A.: *see* Harpur, E. S.
Hamatake, S.: *see* Sumi, M.
Han, M. C.: Industry and radiology in Korea, Suppl 3: S65
Han, M. C.: *see* Choi, B. I.
Han, M. C.: *see* Park, K. S.
Hansell, P.: *see* Nygren, A.
Hanson, G. P., Volodin, V.: World health organization programs in third world countries, Suppl 3: S24
Harapanhalli, R. S.: *see* Yaghmai, V.
Harpur, E. S., Worah, D., Hals, P.-A., Holtz, E., Furuhama, K., Nomura, H.: Preclinical safety assessment and pharmacokinetics of gadodiamide injection, a new magnetic resonance imaging contrast agent, Suppl 1: S28
Harries, S. A.: *see* Amin, Z.
Hartman, P. C., Oosterveld, B. J., Thijssen, J. M., Rosenbusch, G. J. E., van den Berg, J.: Detection and differentiation of diffuse liver disease by quantitative echography: A retrospective assessment, 1
Hartwell, G. D.: *Screen film mammography: Imaging considerations and medical physics responsibilities*, 464
Hasso, A. N.: Current status of enhanced magnetic resonance imaging in neuroradiology, Suppl 1: S3
Hasso, A. N., Sze, G.: Introduction, Suppl 1: S2
Haughton, V. M.: *see* Sze, G.
Hauptmann, S.: *see* Müller-Leisse, C.
Havlioğlu, S.: *see* Akhan, O.
Hayakawa, K.: *see* Tanaka, F.
Hayashi, K.: *see* Ito, M.
He, S.-C.: *see* Teng, G.-J.
Head, C.: *see* Grabowski, E. F.
Hedlund, L. W.: *see* Evans, A. J.
Hedlund, L. W.: *see* Wu, J. J.
Heilen, R.: *see* Koutrouvelis, P. G.
Heitmiller, R. F.: *see* Reichle, R. L.
Hellberg, O.: *see* Nygren, A.
Helvie, M. A., Paramagul, C., Oberman, H. A., Adler, D. D.: Invasive lobular carcinoma: Imaging features and clinical detection, 202
Hemmingsen, L.: *see* Thomsen, H. S.
Hendriks, J. H. C. L.: *see* Karssemeijer, N.
Hennessey, J. G.: *see* Rabushka, L. S.
Henschke, C. I.: Apples and oranges, 263
Heros, R. C.: *see* Camarata, P. J.
Hesselink, J. R.: *see* Sze, G.
Heyman, S. N., Clark, B. A., Cantley, L., Spokes, K., Rosen, S., Brezis, M., Epstein, F. H.: Effects of ioversol versus iothalamate on endothelin release and radiocontrast nephropathy, 313
Hicks, M. E.: *see* Picus, D.
Hieshima, G. B.: Future directions of neurointerventional radiology, Suppl 3: S150
Higgins, C. B.: Functional imaging of the heart: Role of magnetic resonance imaging contrast media, Suppl 4: S38

Higgins, C. B.: New cardiac imaging technologies: Future role in ischemic heart disease, Suppl 3: S144
Higgins, C. B.: *see* Li, H.-T.
Higgins, C. B.: *see* Wendland, M. F.
Higgins, C. B.: *see* Yu, K. K.
Hill, J. A.: Issues in selecting a contrast agent for the cardiac catheterization laboratory, Suppl 4: S5
Hill, J. A.: Nonionic contrast use in cardiac angiography, Suppl 5: S48
Hillman, B. J.: Research in radiology departments, Suppl 2: S44
Hillman, B. J.: The "Residents' Edition" of *Investigative Radiology*, 103
Hillman, B. J.: The role of radiologic journals in advancing research, Suppl 3: S163
Hillman, B. J.: Welcome to *Investigative Radiology*, 180
Hillman, B. J., Fryback, D. G., Holden, R. W., McNeil, B. J., Molitor, R. M., Moss, A. A., Peck, P. V., Putman, C. E., Thompson, W. M.: The General Electric–Association of University Radiologists Radiology Research Academic Fellowship (GERRAF): an industry–academic collaboration to improve clinical research in radiology, 395
Hillman, B. J.: *see* Barr, L. L.
Hillman, B. J.: *see* Gay, S. B.
Hindel, R.: Digital image storage technology, 454
Ho, B. K. T.: *see* Aberle, D. R.
Ho, S.-Y.: *see* D'Arrigo, J. S.
Hochberg, M. C.: *see* Scott, W. W., Jr.
Hodler, J.: *see* Varich, L.
Hoffman, K. R., MacMahon, H., Doi, K., Metz, C. E., Yao, L., Abe, K.: Evaluation of an enhanced digital film-duplication system by receiver operating characteristic analysis, 1134
Holden, R. W.: *see* Hillman, B. J.
Holder, C. A., Sistrom, C. L., Sutton, C. L., McKinney, C. D.: Retroperitoneal cyst in an adult woman, 868
Holder, C. A.: *see* Sistrom, C. L.
Holman, B. L.: *see* Chopra, P. S.
Holten, T.: *see* Jynge, P.
Holtz, E.: *see* Harpur, E. S.
Hopper, K. D., Matthews, Y. L.: Patient choice and nonionic contrast media, 303
Horn, T.: *see* Thomsen, H. S.
Horstman, W. G., Kang, E., Wilson, A. J., Evens, R. G.: Results of the 1992 Survey of the American Association of Academic Chief Residents in Radiology, 96
Huang, H. K.: *see* Aberle, D. R.
Huang, K. S.: *see* Gerhardt, D. A.
Hunt, K. R.: Moonlighting during residency, 392
Hunt, K. R.: *see* Friedman, D. L.
Hunter, D. W.: *see* Nazarian, G. K.
Hunter, T. B.: *see* Friedman, D. L.
Huntley, J. S.: *see* D'Alessandro, M. P.

I

Idee, J.-M.: *see* Touati, C.
Ikezoe, J.: *see* Kido, S.
Ikezoe, J.: *see* Tomiyama, N.
Imaizumi, Y.: *see* Ito, M.
Imanaka, H.: *see* Tomiyama, N.
Inoue, K.: *see* Akashi, Y.
Inouye, S. K.: *see* Taylor, C. R.
Isherwood, I.: Radiologic education in Europe: New challenges and new opportunities, Suppl 3: S94
Itai, Y., Takeda, T.: Application of synchrotron radiation to medicine: Two-dimensional intravenous coronary arteriography and monochromatic x-ray computed tomography, Suppl 3: S158
Ito, M., Hayashi, K., Kawahara, Y., Uetani, M., Imaizumi, Y.: The relationship of trabecular and cortical bone mineral density to spinal fractures, 573
Ito, W.: *see* Kido, S.
Iwai, F.: *see* Evans, A. J.

J

Jacobovitz, D.: *see* Gevenois, P. A.
Jacobsen, E. A., Kløw, N.-E., Pedersen, H. K., Refsum, H.: Repeated intracoronary injections of contrast media: Additive hemodynamic and electrophysiologic effects in a dog model, 917
Jaffe, C. C.: *see* Zink, S.
Jagjivan, B.: *see* DiMario, F. J., Jr.
Jakobsen, J. Å., Nossen, J. Ø., Jørgensen, N. P., Berg, K. J.: Renal tubular effects of diuretics and x-ray contrast media: A comparative study of equimolar doses in healthy volunteers, 319
James, A. E., Jr.: *see* Friedman, P. J.
Jansen, I.: *see* Karstoft, J.
Jarow, J. P., Pugh, V. W., Routh, W. D., Dyer, R. B.: Comparison of penile duplex ultrasonography to pudendal arteriography: Variant penile arterial anatomy affects interpretation of duplex ultrasonography, 806
Jaszczak, R. J.: *see* Schold, S. C., Jr.
Jeffrey, R. B., Jr.: *see* Li, K. C. P.
Jia, H.: *see* Abe, K.
Jinkins, J. R.: *see* Xiong, L.
Johkoh, T.: *see* Tomiyama, N.
Johnson, C.: *see* Gerhardt, D. A.
Johnson, C. E.: *see* Sze, G.
Johnson, R. E.: *Medical imaging physics, 3rd Edition*, 1081
Johnston, G.: *Diagnostic ultrasound: Physics, biology, and instrumentation*, 387
Jones, A. L.: *see* Sidhu, M. K.
Jones, B.: *see* Reichle, R. L.
Jones, M. K.: *see* Novak, Z.
Jones, M. R.: *see* Davies, J. P.
Jong-Hon, K.: *see* Nakakoshi, T.
Jørgensen, N. P.: *see* Jakobsen, J. Å.
Jouanneau, C.: *see* Touati, C.
Jynge, P., Holten, T., Øksendal, A. N.: Sodium-calcium balance and cardiac function with isotonic iodixanol: An experimental study in the isolated rat heart, 20

K

Kalimo, H. O.: *see* Alanen, A. M.
Kandarpa, K.: *see* Chopra, P. S.
Kandil, A.: *see* Li, K. C. P.
Kang, E.: *see* Horstman, W. G.
Kannegieter, L. S., Brandon, J. C., Espinoza, F. P., Vanson, D. T., Deutsch, L.-S., Miller, D. L., III, Teplick, S. K.: Gallbladder ablation with gallstones in situ in an animal model, 420
Kano, A.: *see* Abe, K.
Karlik, S. J.: *see* Struk, D.
Karssemeijer, N., Frieling, J. T. M., Hendriks, J. H. C. L.: Spatial resolution in digital mammography, 413
Karstoft, J., Bååth, L., Jansen, I., Edvinsson, L.: Effects of vasoconstrictors on rabbit coronary arteries exposed to isotonic ionic and nonionic contrast media, 911
Kashefi, A.: *see* Müller-Leisse, C.
Kathol, M. H.: *see* Moore, T. E.
Kato, H.: *see* Kido, S.
Katzberg, R. W.: *see* Novak, Z.
Kawa, S.-K. H.: *see* Akashi, Y.
Kawahara, Y.: *see* Ito, M.
Kawashima, A.: *see* Fishman, E. K.
Keats, T. E.: *The radiologist's second reader*, 90
Kennedy, A.: *see* Dawson, P.
Kido, D. K., Wippold, F. J., Wood, R. C.: The role of nonionic myelography in the diagnosis of lumbar disc herniation, Suppl 5: S62
Kido, S., Ikezoe, J., Naito, H., Tamura, S., Kozuka, T., Ito, W., Shimura, K., Kato, H.: Single-exposure dual-energy chest images with computed radiography: Evaluation with simulated pulmonary nodules, 482
Kim, D. Y.: *see* Park, K. S.
Kim, E. H., Kopecky, K. K., Cummings, O. W., Dreesen, R. G., Pound, D. C.: Electrocautery of the tract after needle biopsy of the liver to reduce blood loss: Experience in the canine model, 228
Kim, S. H.: *see* Park, K. S.
Kim, S. J.: *see* Park, K. S.
Kimura, T.: *see* Sugimoto, H.
King, J. L., Britton, C. A., Gur, D., Rockette, H. E., Davis, P. L.: On the validity of the continuous and discrete confidence rating scales in receiver operating characteristic studies, 962
Kirkpatrick, C. J.: *see* Müller-Leisse, C.
Kita, Y.: *see* Uyama, C.
Kivisaari, L.: *see* Tervahartiala, P.
Kivisaari, R.: *see* Tervahartiala, P.
Klaveness, J.: *see* Leander, P.
Klein, H. M.: *see* Langen, H. J.
Klein, H.-M., Günther, R. W.: Double contrast small bowel follow-through with an acid-resistant effervescent agent, 581
Klosterhalfen, B.: *see* Müller-Leisse, C.
Kløw, N.-E.: *see* Jacobsen, E. A.
Knelson, M.: *see* Debatin, J. F.
Koblik, P. D., Freeman, D. M.: Short echo time magnetic resonance imaging of tendon, 1095
Komu, M. E.: *see* Alanen, A. M.
Kondo, C.: *see* Wendland, M. F.
Koob, M.-C.: *see* Gevenois, P. A.
Kopecky, K. K.: *see* Kim, E. H.
Kopecky, K. K.: *see* Yang, R.
Kopecky, K. K.: *see* Yang, R.
Koreeda, C.: *see* Akashi, Y.
Kormano, M. J.: *see* Alanen, A. M.
Korogi, Y.: *see* Sumi, M.
Kosek, J.: *see* Li, K. C. P.
Koulizakis, E. N.: *see* Koutrouvelis, P. G.
Koutrouvelis, A.: *see* Koutrouvelis, P. G.
Koutrouvelis, P. G., Louie, A., Lang, E., Heilen, R., Koulizakis, E. N., Koutrouvelis, A.: A three-dimensional stereotactic device for computed tomography-guided invasive diagnostic and therapeutic procedures, 845
Kowalsky, R. J.: *Radioisotopic methods for biological and medical research*, 186
Kozuka, T.: The medical economy in Japan, Suppl 3: S10
Kozuka, T.: *see* Kido, S.
Kozuka, T.: *see* Tomiyama, N.
Krabbenhoft, K. L.: Specialty and subspecialty accreditation and certification, 393
Krause, W., Leike, J., Sachse, A., Schuhmann-Giampieri, G.: Characterization of iopromide liposomes, 1028

Krause, W.: *see* Sachse, A.
Krupinski, E. A., Nodine, C. F., Kundel, H. L.: A perceptually based method for enhancing pulmonary nodule recognition, 289
Kucharczyk, W.: Industry and radiology in Canada, Suppl 3: S67
Kudo, M.: *see* Stadalnik, R. C.
Kulik, B.: *see* Unger, E.
Kumar, A. J.: *see* Sze, G.
Kundel, H. L., Walsh, C.: Preparing a research grant application budget, Suppl 3: S13
Kundel, H. L.: *see* Krupinski, E. A.

L

Laccourreye, O., Laurent, A., Polivka, M., Wassef, M., Domas, L., Brasnu, D., Merland, J. J.: Biodegradable starch microspheres for cerebral arterial embolization, 150
Laerum, F.: Magnetic resonance imaging in Norway: Government policies, Suppl 3: S46
Lake, J. R.: *see* Mühler, A.
Lamarque, J. L., Pujol, J.: The impact of new imaging techniques on health care and its costs in France, Suppl 3: S51
Lang, E.: *see* Koutrouvelis, P. G.
Langen, H. J., Klein, H. M., Wein, B., Schiwy-Bochat, K. H., Stargardt, A., Günther, R. W.: Digital radiography versus conventional radiography for the detection of a skull fracture under varying exposure parameters, 231
Langshur, S.: *see* DiMario, F. J., Jr.
Larsen, S.: *see* Thomsen, H. S.
Lasser, E. C.: Radiology research: Not an amateur sport, but fun, Suppl 2: S49
Latchaw, R. E.: The use of nonionic contrast agents in neuroangiography: A review of the literature and recommendations for clinical use, Suppl 5: S55
Latchaw, R. E.: *see* Camarata, P. J.
Laurent, A.: *see* Laccourreye, O.
Lazarus, S. C.: *see* Baxter, A. B.
Leander, P., Golman, K., Strande, P., Klaveness, J., Besjakov, J., Fält, K.: A comparison between IEEC, a new biodegradable particulate contrast medium, and iohexol in a tumor model of computed tomography imaging of the liver, 513
Lee, D. H.: *see* Choi, B. I.
Lees, W. R.: *see* Amin, Z.
Leike, J.: *see* Krause, W.
Leike, J. U.: *see* Sachse, A.
Lemke, H. U.: Future directions in electronic image handling, Suppl 3: S79
Lentle, B. C.: Financial support of imaging in an academic setting, Suppl 3: S116
Lethbridge-Cejku, M.: *see* Scott, W. W., Jr.
Leveen, R. F.: *see* Sehgal, C. M.
Li, H.-T., Saeed, M., Wendland, M. F., Higgins, C. B.: Cardiovascular responses after ionic and nonionic magnetic resonance contrast media in rats with acute myocardial infarction, 11
Li, K. C. P., Jeffrey, R. B., Jr., Ning, S.-C., Kandil, A., Hahn, G. M., Pike, B., Glover, G., Kosek, J.: Experimental hepatic tumor necrosis: Comparison of spin-echo and pulsed magnetization transfer contrast magnetic resonance imaging, 896
Lillsunde, I. G. V.: *see* Alanen, A. M.
Lipton, M. J.: New horizons in cardiac imaging: Computer-assisted quantitation of cardiac images, Suppl 3: S146
Lipton, M. J.: *see* Blomley, M. J. K.
Lissner, J.: Radiology and government policies in Germany, Suppl 3: S48
Liu, Y.-Q.: Manufacture versus import of sophisticated imaging equipment in China, Suppl 3: S58
Lo, J. Y.: *see* Floyd, C. E., Jr.
Lodemann, K.-P.: *see* Ni, Y.
Loken, M. K., Feinendegen, L. E.: Radiation hormesis: Its emerging significance in medical practice, 446
Longo, D.: *see* Urba, W. J.
Longo, R., Ricci, C., Masutti, F., Vidimari, R., Crocé, L. S., Bercich, L., Tiribelli, C., Palma, L. D.: Fatty infiltration of the liver: quantification by ^{1}H localized magnetic resonance spectroscopy and comparison with computed tomography, 297
Louie, A.: *see* Koutrouvelis, P. G.
Louis, O., van den Winkel, P., Covens, P., Schoutens, A., Osteaux, M.: Size of cortical bone and relationship to bone mineral density assessed by quantitative computed tomography image segmentation, 802
Lumper, W.: *see* Gamarra, F.
Lund, P.: *see* Unger, E.

M

MacFall, J. R.: *see* Wu, J. J.
MacMahon, H.: *see* Abe, K.
MacMahon, H.: *see* Hoffman, K. R.
MacNaughton, M. E.: *see* Berbaum, K. S.
Mali, W. P. Th. M.: *see* van der Grond, J.
Manelfe, C.: Changes in neuroradiology due to new technology, Suppl 3: S73
Mann, F. A., Danz, P. L.: The night stalker effect: Quality improvements with a dedicated night-call rotation, 92
Maravilla, K. R.: *see* Sze, G.
Marchal, G.: *see* Ni, Y.
Margulis, A. R.: Goals of the conference, S1
Markowitz, R. I.: Use of radiologic studies by nonradiologists in academic publications: should radiologists care?, 388
Marmor, A., Prober, A.: Effect of contrast material osmolality on the electrocardiogram during intrauterine injection, 439
Martel, W.: Mission, role, and responsibilities of an academic department of radiology, 350
Masutti, F.: *see* Longo, R.
Matsunaga, T.: *see* Unger, E.
Matsusita, S.: *see* Uyama, C.
Matsuura, N.: *see* Tomiyama, N.
Matthews, Y. L.: *see* Hopper, K. D.
Mattrey, R. F.: *see* André, M. P.
Mattrey, R. F.: *see* Satterfield, R.
Maynard, C. D., Cowan, R. J.: Five-year combined diagnostic radiology/nuclear medicine residency, 258
McBurney, A.: *see* Donnelly, P. K.
McBurney, R. M.: *see* D'Alessandro, M. P.
McKinney, C. D.: *see* Holder, C. A.
McNamara, M. T.: *see* Sze, G.
McNeil, B. J.: Reimbursement and imaging technology: Assessment in the United States, Suppl 3: S57
McNeil, B. J.: *see* Gatsonis, C.
McNeil, B. J.: *see* Hillman, B. J.
McNulty, B. C.: *see* Gay, S. B.
Meiss, L.: *see* Engelke, K.
Mennini, T., Bernasconi, P., Fiori, M. G.: Neurotoxicity of nonionic low-osmolar contrast media: A receptor binding study, 821
Merland, J. J.: *see* Laccourreye, O.
Merten, D. F.: *Radiology of syndromes, metabolic disorders and skeletal dysplasias*, 3rd edition, 266
Metz, C. E.: Quantification of failure to demonstrate statistical significance: The usefulness of confidence intervals, 59
Metz, C. E.: *see* Hoffman, K. R.
Mezrich, R. S.: *see* Sebok, N. R.
Michaelsen, V. E.: *see* D'Alessandro, M. P.
Michalson, A.: *see* Schmiedl, U. P.
Michelson, A. D.: *see* Grabowski, E. F.
Michiels, J.: *see* Ni, Y.
Miller, D. L., III: *see* Kannegieter, L. S.
Misaki, T.: *see* Tanaka, F.
Mitsumori, M.: *see* Tanaka, F.
Miyasaka, K.: *see* Nakakoshi, T.
Miyazawa, T., Murayama, C., Yamanaka, T., Fritz-Zieroth, B.: Cerebral embolization in rats induced by red blood cells treated with hypertonic x-ray contrast medium, 831
Mizuno, T.: *see* Akashi, Y.
Molitor, R. M.: *see* Hillman, B. J.
Moncada, R. M.: Postgraduate radiologic education in Latin America: An international model for combining the resources of radiology societies and a United States university, Suppl 3: S92
Moore, T. E., Kathol, M. H., Zollo, S. A., Albanese, M. A.: Comparison of a videodisc system with a conventional film file for medical student teaching, 969
Moreau, J.-F., Noel, L.-H., Droz, D.: Letter to the editor, 187
Moreau, J.-F.: *see* Durand-Zaleski, I.
Morimoto, S.: *see* Tomiyama, N.
Morishita, S.: *see* Sumi, M.
Morris, T. W.: The physiologic effects of nonionic contrast media on the Heart, Suppl 3: S44
Morton, K. A.: *see* Datz, F. L.
Moss, A. A.: How to support flourishing imaging research laboratories in an environment of decreasing government support, Suppl 3: S126
Moss, A. A.: *see* Hillman, B. J.
Moynahan, K., Yoshino, M. T.: Aortic and renal atherosclerotic calcifications seen on computed tomography of the spine: A positive predictor of hypertension, 811
Mühler, A., Clément, O., Saeed, M., Lake, J. R., Stites, D. P., Berthezène, Y., Brasch, R. C.: Gadolinium-ethoxybenzyl-DTPA, a new liver-directed magnetic resonance contrast agent: Absence of acute hepatotoxic, cardiovascular, or immunogenic effects, 26
Mulcahy, P. F.: *see* Orr, L. A.
Muller, H. H.: *see* Sidhu, M. K.
Müller-Leisse, C., Klosterhalfen, B., Hauptmann, S., Simon, H. B., Kashefi, A., Andreopoulos, D., Kirkpatrick, C. J., Günther, R. W.: Computed tomography and histologic results in the early stages of endotoxin-injured pig lungs as a model for adult respiratory distress syndrome, 39
Murayama, C.: *see* Miyazawa, T.

N

Naegele, M.: *see* Gamarra, F.
Nagahiro, S.: *see* Sumi, M.
Nahum, H.: Imaging technology in the European community: Are borders disappearing?, Suppl 3: S8
Naito, H.: *see* Kido, S.

Nakakoshi, T., Fujita, N., Jong-Hon, K., Takeichi, N., Miyasaka, K.: Magnetic resonance imaging of hereditary spontaneous hepatitis in Long-Evans cinnamon rats, 1010
Nazarian, G. K., Qian, Z., Vlodaver, Z., Pozza, C. H., Castañeda-Zúñiga, W. R., Hunter, D. W., Amplatz, K.: Evaluation of a new vascular occlusion device, 1165
Negro-Vilar, R.: *see* Evans, A. J.
Nelson, J. A.: *see* Schenck, E.
Nelson, J. A.: *see* Schmiedl, U. P.
Nelson, R. C., Chezmar, J. L., Thompson, G. H., Webber, J. B., Garrison, M. H., Spencer, H. B., Dillehay, D. L.: Magnetic resonance imaging after arterial portography with manganese dipyridoxal diphosphate, 335
Ney, D. R.: *see* Fishman, E. K.
Ni, Y., Marchal, G., Zhang, X., Van Hecke, P., Michiels, J., Yu, J., Rummeny, E., Lodemann, K.-P., Baert, A. L.: The uptake of manganese dipyridoxal-diphosphate by chemically induced hepatocellular carcinoma in rats: A correlation between contrast-media–enhanced magnetic resonance imaging, tumor differentiation, and vascularization, 520
Ning, S.-C.: *see* Li, K. C. P.
Nishimura, R.: *see* Sumi, M.
Nixon, M. S.: *see* Rabushka, L. S.
Nixon, M. S.: *see* Reichle, R. L.
Nodine, C. F.: *see* Krupinski, E. A.
Noel, L.-H.: *see* Moreau, J.-F.
Nomura, H.: *see* Harpur, E. S.
Norman, G. R.: *see* Babcook, C. J.
Nossen, J. Ø.: *see* Jakobsen, J. A.
Novak, Z., Thurmond, A. S., Ross, P. L., Jones, M. K., Thornburg, K. L., Katzberg, R. W.: Gadolinium-DTPA transplacental transfer and distribution in fetal tissue in rabbits, 828
Nygren, A., Hellberg, O., Hansell, P.: Red-cell trapping in the rat renal microcirculation induced by low-osmolar contrast media and mannitol, 1033

O

Oberman, H. A.: *see* Helvie, M. A.
O'Connor, J.: Career opportunities in pediatric imaging, 467
O'Halloran, C. M., Altmaier, E. M., Smith, W. L., Franken, E. A., Jr.: Evaluation of resident applicants by letters of recommendation: Comparison of traditional and behavior-based formats, 274
Ohsawa, T.: *see* Sugimoto, H.
Oksendal, A.: *see* Bååth, L.
Øksendal, A. N.: *see* Jynge, P.
Okuno, Y.: *see* Tanaka, F.
Oosterveld, B. J.: *see* Hartman, P. C.
Orr, L. A., Mulcahy, P. F.: Residency training in cardiac imaging: Expectations versus reality, 874
Osteaux, M.: *see* Louis, O.
Ovitt, T.: *see* Unger, E.
Owen, R. S.: *see* Cope, C.

P

Palma, L. D.: Uroradiology in Europe, 653
Palma, L. D.: *see* Longo, R.
Paramagul, C.: *see* Helvie, M. A.
Park, J. H.: *see* Park, K. S.
Park, K. S., Kim, S. H., Park, J. H., Han, M. C., Kim, D. Y., Kim, S. J.: Methods for mitigating soft-tissue injury after subcutaneous injection of water soluble contrast media, 332
Park, S. H.: *see* Song, H. H.
Parker, D. L.: *see* Du, Y.
Parkkola, R. K.: *see* Alanen, A. M.
Passariello, R.: Italian radiology: Advanced technology, progress, and promise, Suppl 3: S15
Patel, Y. D.: *see* Yaghmai, V.
Pathria, M.: *see* Varich, L.
Patton, D. D.: Roentgen and the "New Light"—Roentgen's moment of discovery. Part 2: The first glimmer of the "New Light", 51
Patton, D. D.: Roentgen and the "New Light"—Roentgen's moment of discovery. part 3: The genealogy of roentgen's barium platinocyanide screen, 954
Peck, P. V.: *see* Hillman, B. J.
Pedersen, H. K.: *see* Jacobsen, E. A.
Pelc, N. J.: *see* Evans, A. J.
Pelsang, R. E.: *see* Simonson, T. M.
Perloff, L. J.: *see* Cope, C.
Peter, K.: Research support for medical schools in Germany, Suppl 3: S129
Peterman, S. B.: Design of clinical radiologic research, Suppl 2: S17
Peters, A. M.: *see* Dawson, P.
Peters, M.: *see* Dawson, P.
Peters, P. E.: Economic consequences for radiology after German unification, Suppl 3: S18
Petty, R. G.: *see* Dawson, P.
Phillips, M. E.: *see* Berbaum, K. S.
Picus, D., Hicks, M. E., Darcy, M. D., Vesely, T. M.: Magnetic resonance imaging of angiographically occult run off vessels in peripheral arterial occlusive disease, 656
Pike, B.: *see* Li, K. C. P.
Pisano, E. D.: *Film-screen mammography: An atlas of instructional cases*, 665
Pisano, E. D.: *see* Gerhardt, D. A.
Polivka, M.: *see* Laccourreye, O.
Porter, G. A.: Contrast medium–associated nephropathy: Recognition and management, Suppl 4: S11
Porter, G. A.: Effects of contrast agents on renal function, Suppl 5: S1
Pound, D. C.: *see* Kim, E. H.
Pozza, C. H.: *see* Nazarian, G. K.
Prober, A.: *see* Marmor, A.
Provost, T. J.: *see* Elster, A. D.
Pruszynski, B.: Selected problems of undergraduate and postgraduate education in radiology in eastern Europe, Suppl 3: S97
Pugh, V. W.: *see* Jarow, J. P.
Pujol, J.: *see* Lamarque, J. L.
Putman, C. E.: Technology, imaging, education, and research: Where do they fit in a university?, Suppl 3: S96
Putman, C. E., Frank, J. A.: Activities of the conjoint committee: Enhancement of diagnostic radiologic research and education, Suppl 2: S52
Putman, C. E.: *see* Hillman, B. J.

Q

Qian, Z.: *see* Nazarian, G. K.

R

Rabushka, L. S., Fishman, E. K., Goldman, S. M., Hennessey, J. G., Nixon, M. S.: Development of a computer-assisted instructional tool for evaluation and treatment of renal masses: An experiment in hypermedia, 169
Rankin, R. N.: *see* Struk, D.
Rao, D. V.: *see* Yaghmai, V.
Rauch, R. A.: *see* Xiong, L.
Ravin, C. E.: *see* Floyd, C. E., Jr.
Refsum, H.: *see* Jacobsen, E. A.
Reichle, R.: *see* Scott, W. W., Jr.
Reichle, R. L., Fishman, E. K., Nixon, M. S., Heitmiller, R. F., Rubesin, S. E., Jones, B.: Evaluation of the postsurgical esophagus after partial esophagogastrectomy for esophageal cancer: Normal postoperative appearance and complications, 247
Renfrew, D. L., Witte, D. L., Berbaum, K. S., Barloon, T. J.: Comparison of oral cholecystography and ultrasonography for the evaluation of chronic cholecystitis using patient outcome as the reference standard, 404
Renfrew, D. L.: *see* Berbaum, K. S.
Rescorla, F. J.: *see* Yang, R.
Rescorla, F. J.: *see* Yang, R.
Resnick, D.: *see* Varich, L.
Rettig, R.: The role of electronic image transmission in France, Suppl 3: S87
Rhea, J. T., Sztucinski, K.: How to implement a radiology quality improvement program: Pearls and pitfalls, 639
Ricci, C.: *see* Longo, R.
Rienmüller, R.: The imaging of cardiac transplantation, Suppl 3: S149
Ringertz, H. G.: Radiology and the Swedish council on technology assessment in health care, Suppl 3: S44
Robb, W. L.: Future developments in imaging, Suppl 3: S119
Robertson, D. D.: *see* Fishman, E. K.
Robinson, A. E.: *see* Williams, J. P.
Robinson, D. H.: *see* Schmiedl, U. P.
Rockette, H. E.: *see* King, J. L.
Rodrigues, A., Whitten, C. G.: Abdominal wall mass in a pregnant female, 260
Rogers, L. F.: A report from the American Board of Radiology, 268
Rosado-de-Cristenson, M. L., Smirniotopoulos, J. G.: Radiology pathology course, 562
Rosen, S.: *see* Heyman, S. N.
Rosenbaum, R. B.: The role of imaging in the diagnosis of carpal tunnel syndrome, 1059
Rosenbusch, G. J. E.: *see* Hartman, P. C.
Ross, P. L.: *see* Novak, Z.
Routh, W. D.: *see* Jarow, J. P.
Rößling, G. L.: *see* Sachse, A.
Rubesin, S. E.: *see* Reichle, R. L.
Rudnick, M. R.: *see* Goldfarb, S.
Rüfenacht, D. A.: *see* Camarata, P. J.
Rummeny, E.: *see* Ni, Y.
Rusinek, H., Chandra, R.: Brain tissue volume measurement from magnetic resonance imaging: A phantom study, 890

S

Sachse, A., Leike, J. U., Rößling, G. L., Wagner, S. E., Krause, W.: Preparation and evaluation of lyophilized iopromide-carrying liposomes for liver tumor detection, 838
Sachse, A.: *see* Krause, W.
Saeed, M.: *see* Li, H.-T.
Saeed, M.: *see* Mühler, A.
Saeed, M.: *see* Wendland, M. F.
Saeed, M.: *see* Yu, K. K.
Sagman, A. M.: *see* Gay, S. B.
Saitoh, H.: *see* Tanaka, F.
Sakamoto, Y.: *see* Sumi, M.

Sakuma, S.: Expected changes in the practice of radiology in Japan for the 1990s, Suppl 3: S68
Samuels, L. J.: *MRI of the foot and ankle*, 878
Santus, R.: *see* Touati, C.
Sasaki, Y.: Status of hospital information and image transmission systems in Japan, Suppl 3: S85
Satoh, Y.: *see* Tanaka, F.
Satterfield, R., Tarter, V. M., Schumacher, D. J., Tran, P., Mattrey, R. F.: Comparison of different perfluorocarbons as ultrasound contrast agents, 325
Sayek, I.: *see* Akhan, O.
Sayre, J. W.: *see* Aberle, D. R.
Scatliff, J.: *Clinical radiology: The essentials*, 877
Scharling, E. S.: *see* Zagoria, R. J.
Schechter, A. I.: New economic situation and developments in radiology in Russia, Suppl 3: S38
Schelbert, H. R.: Consideration of measurements of myocardial blood flow with positron-emission tomography, Suppl 4: S47
Schenck, E., Nelson, J. A., Starr, F. L., Coldwell, D.: Animal model of portal hypertension with observations regarding the relationship between portal flow and pressure, 442
Schiwy-Bochat, K. H.: *see* Langen, H. J.
Schmidt, R. A.: *see* Yin, F.-F.
Schmiedl, U. P., Nelson, J. A., Robinson, D. H., Michalson, A., Starr, F., Frenzel, T., Ebert, W., Schuhmann-Giampieri, G.: Pharmaceutical properties, biodistribution, and imaging characteristics of manganese-mesoporphyrin: A potential hepatobiliary contrast agent for magnetic resonance imaging, 925
Schmitt-Willich, H.: *see* Göhr-Rosenthal, S.
Schnyder, P.: The present and future of postgraduate education in radiology in Switzerland, Suppl 3: S99
Schold, S. C., Jr., Zalutsky, M. R., Coleman, R. E., Glantz, M. J., Friedman, A. H., Jaszczak, R. J., Bigner, S. H., Bigner, D. D.: Distribution and dosimetry of I-123–Labeled monoclonal antibody 81C6 in patients with anaplastic glioma, 488
Scholz, K.: Contrast media research: Directions in the 1990s, Suppl 3: S140
Schörner, W.: Picture archiving and communication systems and videoconference for medical communication, Suppl 3: S76
Schoutens, A.: *see* Louis, O.
Schreiber, M. H.: A thousand clowns, 660
Schreiber, M. H.: Apogee, 1078
Schreiber, M. H.: Bull, 383
Schreiber, M. H.: Come on, boy, 177
Schreiber, M. H.: Connection, 1077
Schreiber, M. H.: Distal, to me, 462
Schreiber, M. H.: Going Up, 88
Schreiber, M. H.: Homegrown, 179
Schreiber, M. H.: I don't know, 463
Schreiber, M. H.: Institutionalized incompetence, 560
Schreiber, M. H.: Late bloomers, 264
Schreiber, M. H.: Leftovers, 178
Schreiber, M. H.: Mens P, 872
Schreiber, M. H.: Not guilty, 978
Schreiber, M. H.: Plus ça change, 86
Schreiber, M. H.: Sic transit, 265
Schreiber, M. H.: Speak the speech, 659
Schreiber, M. H.: Spinning straw into gold, 385
Schreiber, M. H.: The hard part, 979
Schreiber, M. H.: The truth, 84
Schreiber, M. H.: Twixt the tongue and the lip, 561
Schreiber, M. H.: Who?, 871
Schuhmann-Giampieri, G.: *see* Krause, W.
Schuhmann-Giampieri, G.: *see* Schmiedl, U. P.
Schumacher, D. J.: *see* Satterfield, R.
Schwartz, B.: *see* Gallen, C. C.
Scott, W. W., Jr., Lethbridge-Cejku, M., Reichle, R., Wigley, F. M., Tobin, J. D., Hochberg, M. C.: Reliability of grading scales for individual radiographic features of osteoarthritis of the knee: The Baltimore longitudinal study of aging atlas of knee osteoarthritis, 497
Scott, W. W., Jr.: *see* Fishman, E. K.
Scotti, G.: Future developments in research that will be incorporated into the clinical sphere in diagnostic neuroradiology, Suppl 3: S151
Sebok, D. A.: *see* Sebok, N. R.
Sebok, N. R., Sebok, D. A., Wilkerson, D., Mezrich, R. S., Zatina, M.: In-vitro assessment of the behavior of magnetic resonance angiography in the presence of constrictions, 604
Sehgal, C. M., Leveen, R. F., Shlansky-Goldberg, R. D.: Ultrasound-assisted thrombolysis, 939
Seibert, J. A.: *see* Boone, J. M.
Seltzer, S. E.: Administration and management, 287
Semelka, R.: *Magnetic resonance imaging of the body*, 2nd Edition, 266
Shaffer, K.: *see* Barr, L. L.
Shah, Z.: *see* Crass, J. R.
Shaw, D. D.: Contrast media: Directions for the 1990s, Suppl 3: S138
Shen, D. K.: *see* Unger, E.
Shen, D.-K.: *see* Unger, E.
Shimura, K.: *see* Kido, S.
Shine, K. I.: Prospects for science in the United States from the viewpoint of a former dean and president, Institute of Medicine, United States, Suppl 3: S2
Shinn, K. S.: *see* Song, H. H.
Shlansky-Goldberg, R. D.: *see* Sehgal, C. M.
Sidhu, M. K., Muller, H. H., Aggeler, J., Jones, A. L., Young, S. W.: Manganese dipyridoxal diphosphate–enhanced magnetic resonance imaging in the evaluation of hepatocyte function, 903
Siegle, R. L.: Rates of idiosyncratic reactions: Ionic versus nonionic contrast media, S94
Simon, H. B.: *see* Müller-Leisse, C.
Simon, R. H.: *see* D'Arrigo, J. S.
Simonson, T. M., Pelsang, R. E.: The chief radiology residency: Training in diplomacy, 661
Sistrom, C. L., Gay, S. B.: Facsimile transmission of radiographic images: Preliminary experiments with a personal computer and a fax modem board, 860
Sistrom, C. L., Gay, S. B., Holder, C. A.: Methods used for liver computed tomography scanning in community radiology practice, 1139
Sistrom, C. L.: *see* DeAngelis, G. A.
Sistrom, C. L.: *see* Holder, C. A.
Skaarup, P.: *see* Thomsen, H. S.
Skorton, D. J., Vandenberg, B. F.: Cardiac ultrasound: Progress and prospects, Suppl 4: S19
Skorton, D. J.: *see* Wolf, G. L.
Slabaugh, R.: Hiring a new partner, 1079
Smirniotopoulos, J. G.: *see* Chew, F. S.
Smirniotopoulos, J. G.: *see* Rosado-de-Cristenson, M. L.
Smith, W. L.: Fiscal pressures on radiology residency programs, 981
Smith, W. L.: Introduction, 181
Smith, W. L.: Teaching conferences for residents, 390
Smith, W. L., Zollo, S.: A reading program for diagnostic radiology residents, 278
Smith, W. L.: *see* Gay, S. B.
Smith, W. L.: *see* O'Halloran, C. M.
Sobel, D. F.: *see* Gallen, C. C.
Song, H. H., Park, S. H., Shinn, K. S.: Radiologists' responses to patients' inquiries about imaging results: A pilot study on opinions of various groups, 1043
Sostman, H. D.: *see* Debatin, J. F.
Sostman, H. D.: *see* Evans, A. J.
Sostman, H. D.: *see* Wu, J. J.
Spencer, G. M.: *see* Amin, Z.
Spencer, H. B.: *see* Nelson, R. C.
Spinler, S.: *see* Goldfarb, S.
Spokes, K.: *see* Heyman, S. N.
Spraggins, T. A.: *Fundamentals of magnetic Resonance Imaging*, 386
Spraggins, T. A.: *see* Dwyer, S. J.
Sprindrich, J.: Radiology in Czechoslovakia in a time of change, Suppl 3: S36
Spritzer, C. E.: *see* Debatin, J. F.
Spritzer, C. E.: *see* Evans, A. J.
Stadalnik, R. C., Kudo, M., Eckelman, W. C., Vera, D. R.: In vivo functional imaging using receptor-binding radiopharmaceuticals: Technetium 99m-galactosyl-neoglycoalbumin as a model, 64
Standen, J.: *see* Unger, E.
Standertskjold-Nordenstam, C.-G.: Impact of imaging technology on clinical care in Finland, Suppl 3: S110
Standertskjöld-Nordenstam, C.-G.: *see* Tervahartiala, P.
Stargardt, A.: *see* Langen, H. J.
Starr, F.: *see* Schmiedl, U. P.
Starr, F. L.: *see* Schenck, E.
Steinbach, G.: *see* André, M. P.
Stewart, B. K., Dwyer, S. J., III: Prediction of teleradiology system throughput by discrete event-driven, block-oriented network simulation, 162
Stewart, B. K.: *see* Aberle, D. R.
Stewart, B. K.: *see* Dwyer, S. J.
Stites, D. P.: *see* Mühler, A.
Strande, P.: *see* Leander, P.
Struk, D., Rankin, R. N., Karlik, S. J.: Stability studies on chemoembolization mixtures: Dialysis studies of doxorubicin and lipiodol with avitene, gelfoam, and angiostat, 1024
Struyven, J.: *see* Gevenois, P. A.
Sugimoto, H., Kimura, T., Ohsawa, T.: Susceptibility effects of bone trabeculae: Quantification in vivo using an asymmetric spin-echo technique, 208
Sumi, M., Takahashi, M., Nagahiro, S., Korogi, Y., Sakamoto, Y., Nishimura, R., Morishita, S., Hamatake, S., Ushio, Y.: Correlation of sequential magnetic resonance imaging of experimental brain ischemia with histologic changes in gerbils, 994
Sun, K.: *see* Taylor, C. R.
Sutton, C. L.: *see* Holder, C. A.
Svendsen, O.: *see* Thomsen, H. S.
Sze, G., Brant-Zawadzki, M., McNamara, M. T., Haughton, V. M., Kumar, A. J., Maravilla, K. R., Aisen, A. M., Dreisbach,

J. N., Bradley, W. G., Jr., Weinreb, J. C., Drayer, B. P., Tsuruda, J. S., Hesselink, J. R., Johnson, C. E., Zimmerman, R. D., Weingast, G. R.: Use of the magnetic resonance contrast agent gadodiamide in the central nervous system: Results of a multicenter trial, Suppl 1: S49
Sze, G.: *see* Hasso, A. N.
Sztucinski, K.: *see* Rhea, J. T.

T

Takahashi, M.: Research directions in imaging in Japan, Suppl 3: S134
Takahashi, M.: *see* Sumi, M.
Takeda, T.: *see* Itai, Y.
Takeichi, N.: *see* Nakakoshi, T.
Takeuchi, N.: *see* Tomiyama, N.
Tamura, S.: *see* Kido, S.
Tan, L. K. A.: Industry and radiology in Singapore, Suppl 3: S63
Tanaka, F., Hayakawa, K., Satoh, Y., Okuno, Y., Torizuka, T., Saitoh, H., Fujiwara, K., Mitsumori, M., Misaki, T.: Evaluating bronchial drainage pathways in patients with lung disease using digital subtraction angiography, 434
Tanaka, Y.: *see* Akashi, Y.
Tarter, V. M.: *see* Satterfield, R.
Taylor, A. Jr.: Animal research, Suppl 2: S30
Taylor, C. R., Elmore, J. G., Sun, K., Inouye, S. K.: Technology assessment in diagnostic imaging: A proposal for a phased approach to evaluating radiology, 155
Teng, G.-J., He, S.-C., Guo, J.-H., Cai, X.-L., Gao, G.-R.: Preoperative transcatheter hepatic arterial embolization for hepatic malignancy, 235
ten Hove, W.: *see* van der Grond, J.
Teplick, S. K.: *see* Kannegieter, L. S.
Terry, J. A.: *see* Tsui, B. M. W.
Tervahartiala, P., Kivisaari, L., Kivisaari, R., Virtanen, I., Standertskjöld-Nordenstam, C.-G.: Reply, 188
Thijssen, J. M.: *see* Hartman, P. C.
Thompson, G. H.: *see* Nelson, R. C.
Thompson, J.: *Diagnostic imaging of aids*, 1081
Thompson, W. M.: *see* Hillman, B. J.
Thomsen, H. S., Dorph, S., Larsen, S., Horn, T., Hemmingsen, L., Skaarup, P., Golman, K., Svendsen, O.: Urine profiles and kidney histologic findings after intravenous injection of mannitol and iohexol in the degeneration phase of gentamicin nephropathy in rats, 133
Thornburg, K. L.: *see* Novak, Z.
Thrall, J. H.: Radiology research center in a university: A model for development, Suppl 3: S127
Thurmond, A. S.: *see* Novak, Z.
Thurrell, W.: *see* Amin, Z.
Tiribelli, C.: *see* Longo, R.
Tobin, J. D.: *see* Scott, W. W., Jr.
Tomiyama, N., Takeuchi, N., Imanaka, H., Matsuura, N., Morimoto, S., Ikezoe, J., Johkoh, T., Arisawa, J., Kozuka, T.: Mechanism of gravity-dependent atelectasis: Analysis by nonradioactive xenon-enhanced dynamic computer tomography, 633
Torizuka, T.: *see* Tanaka, F.
Touati, C., Idee, J.-M., Deray, G., Santus, R., Balut, C., Beaufils, H., Jouanneau, C., Bourbouze, R., Doucet, D., Bonnemain, B.: Modulation of the renal effects of contrast media by endothelium-derived nitric oxide in the rat, 814
Tran, P.: *see* Satterfield, R.
Tress, B. M.: Recession and radiology down-under, Suppl 3: S21
Trudell, D.: *see* Varich, L.
Tsui, B. M. W., Terry, J. A., Gullberg, G. T.: Evaluation of cardiac cone-beam single photon emission computed tomography (SPECT) using observer performance experiments and receiver operating characteristic analysis, 1101
Tsuruda, J. S.: *see* Sze, G.
Tyson, R.: *see* Varich, L.

U

Uetani, M.: *see* Ito, M.
Unger, E., Fritz, T., Shen, D. K., Wu, G.: Manganese-based liposomes: Comparative approaches, 933
Unger, E., Shen, D.-K., Fritz, T., Lund, P., Wu, G.-L., Kulik, B., DeYoung, D., Standen, J., Ovitt, T., Matsunaga, T.: Gas-filled liposomes as echocardiographic contrast agents in rabbits with myocardial infarcts, 1155
Urba, W. J., Longo, D.: Hodgkin's disease in adults: Part II, 848
Ushio, Y.: *see* Sumi, M.
Uyama, C., Kita, Y., Matsusita, S.: Optimal sampling interval and edge detection algorithm for measurement of blood vessel diameter on a cineangiogram, 1128

V

Valley, K.: *see* Barr, L. L.
van den Berg, J.: *see* Hartman, P. C.
van den Winkel, P.: *see* Louis, O.
Vandenberg, B. F.: *see* Skorton, D. J.
van der Grond, J., Crolla, R. M. P. H., ten Hove, W., Van Vroonhoven, T. J. M. V., Mali, W. P. Th. M.: Phosphorus magnetic resonance spectroscopy of the calf muscle in patients with peripheral arterial occlusive disease, 104
Van Hecke, P.: *see* Ni, Y.
Vannier, M. W.: A high-temperature superconducting receiver for nuclear magnetic resonance microscopy, 1075
Vanson, D. T.: *see* Kannegieter, L. S.
van Voorthuisen, A. E.: Government and the practice of radiology in Holland, Suppl 3: S55
van Vroonhoven, T. J. M. V.: *see* van der Grond, J.
Van Wagoner, M., Worah, D.: Gadodiamide injection: First human experience with the nonionic magnetic resonance imaging enhancement agent, Suppl 1: S44
Varich, L., Pathria, M., Resnick, D., Hodler, J., Bruser, D., Bosch, E., Trudell, D., Tyson, R.: Patterns of central acetabular osteophytosis in osteoarthritis of the hip, 1120
Velasquez-Rocha, S.: *see* Yu, K. K.
Vera, D. R.: *see* Stadalnik, R. C.
Vesely, T. M.: *see* Picus, D.
Vidimari, R.: *see* Longo, R.
Viera, M.: *see* Chopra, P. S.
Virtanen, I.: *see* Tervahartiala, P.
Virtanen, K. O. J.: *see* Alanen, A. M.
Vlodaver, Z.: *see* Nazarian, G. K.
Volodin, V.: *see* Hanson, G. P.
Vyborny, C. J.: *see* Yin, F.-F.

W

Wagner, S. E.: *see* Sachse, A.
Walker, C. W.: *see* Berbaum, K. S.
Walls, J.: *see* Donnelly, P. K.
Walsh, C.: *see* Kundel, H. L.
Waltz, T.: *see* Gallen, C. C.
Ward, J. W.: *see* Donnelly, P. K.
Washburn, D. B.: *see* Gerhardt, D. A.
Wassef, M.: *see* Laccourreye, O.
Watkin, E. M.: *see* Donnelly, P. K.
Watson, L. R.: *see* DeAngelis, G. A.
Webber, J. B.: *see* Nelson, R. C.
Weber, E. U.: *see* Böckenholt, U.
Webster, E. W.: Commentary: Hormesis and radiation protection, 451
Wein, B.: *see* Langen, H. J.
Weingast, G. R.: *see* Sze, G.
Weinreb, J. C.: *see* Sze, G.
Weissleder, R., Bogdanov, A., Frank, H., Bogdanova, A., Brady, T., Wittenberg, J.: A drug system (PDH) for interventional radiology: Synthesis, properties, and efficacy, 1083
Wendland, M. F., Saeed, M., Kondo, C., Derugin, N., Higgins, C. B.: Effect of lidocaine on acute regional myocardial ischemia and reperfusion in the cat: An in-vivo ^{31}P magnetic resonance spectroscopy study, 619
Wendland, M. F.: *see* Li, H.-T.
Wendland, M. F.: *see* Yu, K. K.
West, O. C.: *see* Wilson, A. J.
Wexler, L.: *see* White, R. D.
Wexler, L.: *see* White, R. D.
Whaley, R. A.: *Interventional neuroradiology: Endovascular therapy of the central nervous system*, 267
White, R. D., Boxt, L. M., Wexler, L.: Cardiac radiology: A survey of its current status, 545
White, R. D., Boxt, L. M., Wexler, L.: Cardiac radiology: An asset to radiology?, 550
Whitten, C. G.: *see* Berbaum, K. S.
Whitten, C. G.: *see* Rodrigues, A.
Wiesen, E.: *see* Crass, J. R.
Wigley, F. M.: *see* Scott, W. W., Jr.
Wilkerson, D.: *see* Sebok, N. R.
Williams, J. P., Gupta, K. L., Robinson, A. E.: Two-month headache in a nine-year-old boy, 974
Wilson, A. J., West, O. C.: Single-exposure conventional and computed radiography: The hybrid cassette revisited, 409
Wilson, A. J.: *see* Horstman, W. G.
Wingate, C. L.: NIH peer review of grant applications: Definitions, procedures, and suggestions, Suppl 2: S38
Wippold, F. J.: *see* Kido, D. K.
Witte, D. L.: *see* Renfrew, D. L.
Wittenberg, J.: Radiology in South America: contrasting political/economic imperatives and opportunities, Suppl 3: S28
Wittenberg, J.: *see* Weissleder, R.
Wolf, G. L., Gazelle, G. S.: Current status of radiographic contrast media, Suppl 4: S2
Wolf, G. L., Skorton, D. J.: Advances in imaging: Contemporary issues for the cardiologist and the radiologist, Suppl 4: S1
Wolf, K.-J.: Industrial support for research in Germany, Suppl 3: S59
Wood, R. C.: *see* Kido, D. K.
Worah, D.: *see* Harpur, E. S.
Worah, D.: *see* Van Wagoner, M.
Worthington, B. S.: Human observer performance: A new set of problems to solve, Suppl 3: S160
Wu, E. X.: *see* Yang, R.
Wu, G.: *see* Unger, E.
Wu, G.-L.: *see* Unger, E.
Wu, J. J., MacFall, J. R., Sostman, H. D., Hedlund, L. W.: Clot-blood contrast in fast

gradient-echo magnetic resonance imaging, 586

X

Xiong, L., Rauch, R. A., Hagino, N., Jinkins, J. R.: An animal model of corpus callosum impingement as seen in patients with normal pressure hydrocephalus, 46

Y

Yaghmai, V., Harapanhalli, R. S., Patel, Y. D., Baker, S. R., Rao, D. V.: Effects of diatrizoate and iopamidol on spermatogenesis, 1160
Yamanaka, T.: *see* Miyazawa, T.
Yanagisawa, T.: *see* Abe, K.
Yang, R., Kopecky, K. K., Rescorla, F. J., Galliani, C. A., Grosfeld, J. L.: Changes of hepatoma echo patterns with tumor growth: A study of the microanatomic basis in a rat model, 507
Yang, R., Kopecky, K. K., Rescorla, F. J., Galliani, C. A., Wu, E. X., Grosfeld, J. L.: Sonographic and computed tomography characteristics of liver ablation lesions induced by high-intensity focussed ultrasound, 796
Yao, L.: *see* Hoffman, K. R.
Yernault, J.-C.: *see* Gevenois, P. A.
Yin, F.-F., Giger, M. L., Vyborny, C. J., Doi, K., Schmidt, R. A.: Comparison of bilateral-subtraction and single-image processing techniques in the computerized detection of mammographic masses, 473
Yoshino, M. T.: *see* Moynahan, K.
Youker, J. E.: Residency and subspecialty training in the united states and opportunities for international exchange of trainees, Suppl 3: S101
Young, D. A.: *see* Aberle, D. R.
Young, D. C.: *see* Berbaum, K. S.
Young, I. R.: The interaction of industry and academia in diagnostic imaging, Suppl 3: S61
Young, S. W.: *see* Sidhu, M. K.
Yu, J.: *see* Ni, Y.
Yu, K. K., Saeed, M., Wendland, M. F., Dae, M. W., Velasquez-Rocha, S., Derugin, N., Higgins, C. B.: Comparison of T1-enhancing and magnetic susceptibility magnetic resonance contrast agents for demarcation of the jeopardy area in experimental myocardial infarction, 1015
Yudin, A. L.: Impact of electronic imaging on the visual nature of diagnostics in radiology, Suppl 3: S91

Z

Zagoria, R. J., Dyer, R. B., Scharling, E. S.: Spontaneous perinephric hemorrhage: Imaging and management, 82
Zalutsky, M. R.: *see* Schold, S. C., Jr.
Zatina, M.: *see* Sebok, N. R.
Zeffiro, W. W.: Tracking a grant through the NIH: Or the radiologist who came in from the cold, Suppl 2: S33
Zhang, X.: *see* Ni, Y.
Zimmerman, R. D.: *see* Sze, G.
Zink, S., Jaffe, C. C.: Medical imaging databases: A National Institutes of Health Workshop, 366
Zollo, S.: *see* Smith, W. L.
Zollo, S. A.: *see* Moore, T. E.